

Achieve Your Ideas.

Aces offers extensive design, engineering and manufacturing to serve variant products in industries that include computer, computer peripherals, business equipment, home entertainment and telecommunications.



知識的力量

Power of Knowledge



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About Us

公司名稱：宏致電子股份有限公司

- 成 立：1996, 11 月
- 員 工 數：> 4000
- 總 部：台灣, 桃園
- 生產基地：台灣精工中心, 東莞宏致, 昆山宏致
- 通過認證：ISO 9001, ISO 14001, TL 9000, ISO/TS16949, OHSAS 18001, QC 080000

宏致電子，專注於電子連接器的研發與製造，立足台灣，深耕大中華，以桃園為總部，於大陸東莞、昆山設立生產基地，並結合業界的精英，透過共同的信念及宏觀的視野，串聯起夢想與科技。

宏致電子，致力於 NB、手機、數位相機等消費性產品所使用的連接器，擁有完整的產品線及規格，以紮實的研發技術及專業的分工作業，從產品設計開發、模具設計開發、沖壓製造、成形製造、電鍍及成品組裝的整合關鍵技術皆能一氣呵成，不但能縮短開發時程，大幅提升產能與品質，同時也能滿足快速的市場需求，不僅如此，更以自有的關鍵技術，研發高頻，車用設備之電子零組件，持續擴大產品的廣度。

2015 年，宏致電子更積極展開產業的水平與垂直整合，除了加利斯電鍍廠正式營運外，並與“大地電氣”共同生產製造汽車線束，再與“龍翰科技”攜手佈局消費性與工業產品的線材市場，以整合產業技術與能量為目標，提昇集團競爭力，提供予客戶全方位的產品與服務。

未來，宏致集團，將持續透過品質、產能、交期等整合性服務，來爭取國際大廠的更多的肯定與信賴，更將不斷尋求技術上的突破與精進，佈局全球，以“連接器產業的領導品牌”為集團目標，創造更美好的未來。

Company name: ACES Electronic Co., Ltd

- Established : November, 1996
- Staff Strength : > 4000
- Headquarters : Taoyuan, Taiwan
- Manufacturing Sites : Taiwan PEC ; Kunshan, China; Dongguan, China
- Certifications : ISO 9001, ISO 14001, TL9000, ISO/TS16949, OHSAS 18001, QC 080000

Aces Electronics offers comprehensive connector solutions for a wide array of electronic applications, including NB Computers, Cellular Phones, Digital Cameras, etc., headquartered in Taoyuan Taiwan with overseas manufacturing facilities in Dongguan, Kunshan.

Aces provides shorter product development and production cycles to meet business and development goals through its matured capability in product development, tooling design/ fabrication, and well-established manufacturing processes. Its highly experienced team is committed to realizing customers' vision in business and technology. Meanwhile, Aces is reaching out to wider spectrum of customers with its recent development in the arena of high-speed/high-frequency telecommunications and automotive electronics.

In 2015, Aces is more aggressive on the integration of vertical & horizontal markets. Currently, the Electroplating Factory –Galís has been officially operated. ACES co-works with NTGEC on the Development of Automotive Wiring Harness, also, works with MEC on Development of Wiring for both consumer and industrial grade markets. The main target is to extract the experience on technology, and increase the capability to improve the competitiveness of quality and service.

In the future, ACES will keep focusing on quality, productivity, and speed to delivery to earn more trust of global companies. Keep looking for the advanced technology, then deploy to worldwide to achieve the leading brand of Connector.



知識·視野·
價值·態度·
承諾·執行·

Values · Knowledge
· Vision
Attitude ·
Execution ·
· Commitment



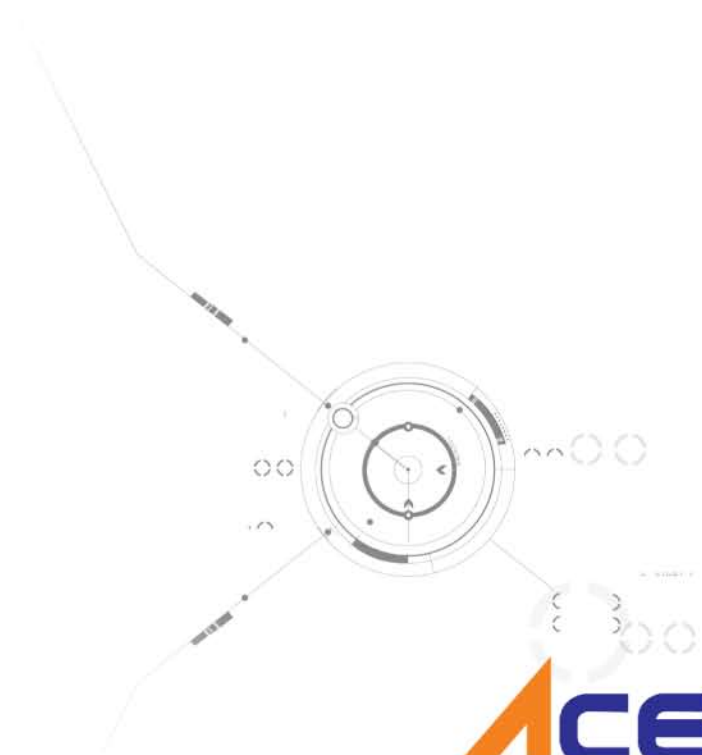


Board To Board Conn.	P. 06
Wire To Board Conn.	P. 18
FFC/FPC Conn.	P. 32
USB Conn.	P. 44
Mag Fit Conn.	P. 54
Power Conn.	P. 58
HDMI Conn.	P. 64
DC Jack Conn.	P. 68
SAS Conn. / SATA Conn.	P. 74
Battery Conn.	P. 81
RF Conn.	P. 86
M.2 Conn.	P. 90
LVDS Conn.	P. 94
Automotive Conn.	P.100



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BTB Conn.

Product Profile

ACES offers extensive design, engineering and manufacturing to serve variant products in industries that include computer, computer peripherals, business equipment, home entertainment and telecommunications.



『 Board To Board Connector 』

Photos	Product Family	Product Family Description
	0.4mm	<p>Features:</p> <ul style="list-style-type: none"> - Ultra-slim 0.4mm pitch SMT Board- to- Board connector - Mating height range support from 0.9mm to 4.0mm. - Low profile and space efficient connector <p>Applications:</p> <p>Cellular phone / mobile PC / Slim Notebook-PC / MP3 Player / DSC /DVC</p>
	0.5mm	<p>Features:</p> <ul style="list-style-type: none"> - 0.5mm pitch SMT Board-To-Board connectors - Mating height ranges support from 2.0mm to 13.8mm. - Over 20 series of connector to meet widely requirement <p>Applications:</p> <p>Camcorders / Notebook PC / Game player</p>
	0.635mm	<p>Features:</p> <ul style="list-style-type: none"> - 0.635mm pitch SMT Board-To-Board connectors - The mating range from 4.0 to 8.0 mm - Ni barrier on contact of both plug and receptacle prevents solder wicking <p>Applications:</p> <p>PDA's / cellular phones / notebook PCs and other compact equipment.</p>
	0.8mm	<p>Features:</p> <ul style="list-style-type: none"> - 0.8mm pitch SMT Board-to-Board connector. - The family covers mating height ranges support from 2.3mm to 18mm - Ni barrier on contact of both plug and receptacle prevents solder wicking <p>Applications:</p> <p>Personal computer audio and modem codec solutions / Game Player / Medical equipment</p>

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『 Board To Board Connector 』

Mating Height (mm)

Pitch:0.4mm Series:A4	Plug	51015 ★ ◎	51023 ★ ◎	51167 ★ ◎	51033	50185 ★ ◎	50011	50177	50199	51011	51027
Rcpt.	Housing High(mm)	0.87	0.83	0.65	1.19	1.14	1.64	2.29	2.29	1.20	3.05
51016 ★ ◎	0.63	0.90	---	---	---	---	---	---	---	---	---
51024 ★ ◎	0.97	---	1.00	---	---	---	---	---	---	---	---
51168 ★ ◎	0.77	---	---	0.80	---	---	---	---	---	---	---
51034	1.42	---	---	---	1.50	---	---	---	---	---	---
51049 ★ ◎	1.34	---	---	---	---	1.50	2.00	---	---	---	---
50170	1.64	---	---	---	---	1.80	---	---	---	---	---
50009 ★	1.84	---	---	---	---	2.00	---	---	---	---	---
50010 ★	1.99	---	---	---	---	2.15	---	---	---	---	---
50012	1.84	---	---	---	---	---	2.50	---	---	---	---
50180 ◎	3.20	---	---	---	---	---	---	3.50	3.50	---	---
51012	1.42	---	---	---	---	---	---	---	---	1.50	---
51050	2.80	---	---	---	---	---	3.00	---	---	---	---
51028	2.60	---	---	---	---	---	---	---	---	---	4.00

★ High Speed (SATA gen3 - USB3.0 - Type C)
◎ Key P/N

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『 Board To Board Connector 』

Mating Height (mm)

Pitch:0.5mm Series:A5J	Plug	50019	50020	50152	50149	50031	50039	50167	50148
Rcpt.	Housing High(mm)	3.00	3.00	3.00	3.00	3.00	4.70	5.40	4.70
50150	3.20	4.00	4.00	4.00	4.00	4.00	---	---	---
50151	3.20	4.00	4.00	4.00	4.00	4.00	---	---	---
50029	3.20	4.00	4.00	4.00	4.00	4.00	---	---	---
50155	3.20	4.00	4.00	4.00	4.00	4.00	---	---	---
50030	3.20	4.00	4.00	4.00	4.00	4.00	---	---	---
50032	3.70	4.50	4.50	4.50	4.50	4.50	---	---	---
50033	3.70	4.50	4.50	4.50	4.50	4.50	---	---	---
50035	3.70	4.50	4.50	4.50	4.50	4.50	---	---	---
50036	5.70	6.55	6.60	6.55	6.55	6.55	---	---	---
50153	6.20	7.00	7.00	7.00	7.00	7.00	---	---	---
50038	7.20	8.00	8.00	8.00	8.00	8.00	8.70	---	---
50043	3.20	---	---	---	---	4.00	---	---	---
50044	3.70	4.50	4.50	---	4.50	4.50	5.20	---	5.20
50166	4.25	---	---	---	---	---	---	5.90	---
50045	6.20	---	---	---	---	7.00	7.70	---	7.70
50046	8.00	8.80	8.80	8.80	8.80	8.80	---	---	---
50161	3.70	---	---	---	---	4.50	5.20	---	5.20

★ High Speed (SATA gen3、USB3.0、Type C)
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『 Board To Board Connector 』

Mating Height (mm)

Pitch:0.5mm Series:A5J	Plug	50022	50021	50023	50024	50025	50026	50027	50028
Rcpt.	Housing High(mm)	4.50	5.00	5.00	5.00	4.00	6.50	6.70	8.00
50150	3.20	5.50	6.00	6.00	6.00	5.00	7.50	7.70	9.00
50151	3.20	5.50	6.00	6.00	6.00	5.00	7.50	7.70	9.00
50029	3.20	5.50	6.00	6.00	6.00	5.00	7.50	7.70	9.00
50155	3.20	5.50	6.00	6.00	6.00	5.00	7.50	7.70	9.00
50030	3.20	5.50	6.00	6.00	6.00	5.00	7.50	7.70	9.00
50032	3.70	6.00	6.50	6.50	6.50	5.50	8.00	8.20	9.50
50033	3.70	6.00	6.50	6.50	6.50	5.50	8.00	8.20	9.50
50035	3.70	6.00	6.50	6.50	6.50	5.50	8.00	8.20	9.50
50036	5.70	8.00	8.50	8.50	8.50	7.50	10.00	10.20	11.50
50153	6.20	8.50	9.00	9.00	9.00	8.00	10.50	10.70	12.00
50038	7.20	9.00	9.50	9.50	9.50	8.50	11.50	11.70	13.00
50043	3.20	---	---	---	---	---	---	---	---
50044	3.70	6.00	---	---	---	---	---	---	---
50166	4.25	---	---	---	---	---	---	---	---
50045	6.20	---	---	---	---	---	---	---	---
50046	8.00	10.30	10.80	10.80	10.80	9.80	12.30	12.50	13.80
50161	3.70	6.00	---	---	---	---	---	---	---

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『 Board To Board Connector 』

Mating Height (mm)

Pitch:0.8mm Series:A8A	Plug	50107 ★	50110	50109	50111 ◎	50112	50113 ★	50114	50115	50116	50117	50118	50119
Rcpt.	Housing High(mm)	1.90	2.35	2.35	2.85	3.35	3.55	3.55	3.55	3.55	3.85	4.35	4.65
50105	2.15	2.30	2.80	2.80	3.30	3.70	3.80	4.00	4.00	4.00	4.30	4.80	4.80
50106	2.15	2.30	2.80	2.80	3.30	3.70	3.80	4.00	4.00	4.00	4.30	4.80	4.80
50100 ★ ◎	2.35	2.50	3.00	3.00	3.50	3.90	4.00	4.20	4.20	4.20	4.50	5.00	5.30
50102	3.65	3.80	4.30	4.30	4.80	5.20	5.30	5.50	5.50	5.50	5.80	6.30	6.60
50103	4.35	4.50	5.00	5.00	5.50	5.90	6.00	6.20	6.20	6.20	6.50	7.00	7.30
50104	6.35	6.50	7.00	7.00	7.50	7.90	8.00	8.20	8.20	8.20	8.50	9.00	9.30
50164	9.35	9.50	10.00	10.00	10.50	10.90	11.00	11.20	11.20	11.20	11.50	12.00	12.30
50158	2.35	2.50	3.00	3.00	3.50	3.90	4.00	4.20	4.20	4.20	4.50	5.00	5.30

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『 Board To Board Connector 』

Mating Height (mm)

Pitch:0.8mm Series:A8A	Plug	50120	50121	50122	50123	50124	50125	50126	50127	50129	50189	51038 ◎	51053
Rcpt.	Housing High(mm)	5.35	6.35	6.35	7.35	8.35	10.35	10.35	4.85	6.60	4.95	4.65	6.55
50105	2.15	5.80	6.80	6.80	7.80	8.80	10.80	10.80	5.30	---	---	---	---
50106	2.15	5.80	6.80	6.80	7.80	8.80	10.80	10.80	5.30	---	---	---	---
50100 ◎	2.35	6.00	7.00	7.00	8.00	9.00	11.00	11.00	5.50	---	5.50	---	---
50102	3.65	7.30	8.30	8.30	9.30	10.30	12.30	12.30	6.80	---	---	---	---
50103	4.35	8.00	9.00	9.00	10.00	11.00	13.00	13.00	7.50	---	---	---	---
50104	6.35	10.00	11.00	11.00	12.00	13.00	15.00	15.00	9.50	---	---	---	---
50164	9.35	13.00	14.00	14.00	15.00	16.00	18.00	18.00	12.50	---	---	---	---
50158	2.35	6.00	7.00	7.00	8.00	9.00	11.00	11.00	5.50	---	5.50	---	---
50128	8.05	---	---	---	---	---	---	---	---	11.00	---	---	10.95
51039 ◎	3.80	---	---	---	---	---	---	---	---	---	---	5.10	---

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Mating Height (mm)

Pitch:0.5mm Series:A5	Plug	50181	51005 ◎	51007	51009	50195	50168	50013 ◎	50191	50186
Rcpt.	Housing High(mm)	3.00	2.80	4.30	4.30	5.00	1.15	2.30	3.20	2.10
50014 ◎	2.30	3.70	3.50	5.00	5.00	---	---	3.00	---	---
51006 ◎	2.20	---	3.50	---	---	---	---	---	---	---
51008	2.70	---	---	---	5.00	---	---	---	---	---
50196	3.50	---	---	---	---	6.00	---	---	---	---
50169	1.85	---	---	---	---	---	2.00	---	---	---
50197	2.80	---	---	---	---	---	---	---	---	3.00

Mating Height (mm)

Pitch:0.5mm Series:A5A	Plug	50047	50048	50049	50050	50052	50051	50053	50054	51010	50072
Rcpt.	Housing High(mm)	1.60	1.60	2.05	2.35	2.35	2.85	4.35	5.35	1.95	2.00
50055	1.90	2.00	2.00	---	---	---	---	---	---	2.35	---
50056	1.90	2.00	2.00	---	---	---	---	---	---	---	---
50057	2.00	2.15	2.35	2.50	2.80	2.80	3.30	4.80	5.80	---	---
50058	2.30	2.45	2.45	2.80	2.90	2.90	3.40	4.90	5.90	---	---
50060	4.00	---	---	---	4.00	---	4.50	---	---	---	---
50059	4.35	4.35	4.35	4.85	4.90	4.90	5.40	6.90	7.90	---	---
50073	2.00	---	---	---	---	---	---	---	---	---	2.50

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Mating Height (mm)

Pitch:0.635mm Series:A635M	Plug	50094	50095
Rcpt.	Housing High(mm)	4.95	5.95
50096	4.00	7.00	8.00

Mating Height (mm)

Pitch:1.0mm Series:A1J	Plug	88393	51105
Rcpt.	Housing High(mm)	3.90	3.30
88395	5.60	8.80	---
51106	3.30	---	4.00

Mating Height (mm)

Pitch:1.25mm Series:A125T	Plug	51035 ◎
Rcpt.	Housing High(mm)	4.25
51036 ◎	3.40	5.10

- ★ High Speed (SATA gen3、USB3.0、Type C)
- ◎ Key P/N

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『 Board To Board Connector 』

51167 Series

0.4mm Pitch BTB Plug Conn.
SMT D/R S/T H=0.65mm Type



Electrical

Voltage : 60V AC/DC (Per Pin)
Current : 0.3A (Per Pin)
Contact Resistance : 70mΩ max.
Dielectric Withstanding Voltage : 150V AC/rms
Insulation Resistance : 1000 MΩ min.
Operating Temp. : -55°C ~ +85°C

Reference Information

Mated P/N : 51168
★ High Speed Product : SATA gen3 - USB3.0 - Type C

51168 Series

0.4mm Pitch BTB Rcpt. Conn.
SMT D/R S/T H=0.77mm Type



Electrical

Voltage : 60V AC/DC (Per Pin)
Current : 0.3A (Per Pin)
Contact Resistance : 70mΩ max.
Dielectric Withstanding Voltage : 150V AC/rms
Insulation Resistance : 1000 MΩ min.
Operating Temp. : -55°C ~ +85°C

Reference Information

Mated P/N : 51167
★ High Speed Product : SATA gen3 - USB3.0 - Type C

51023 Series

0.4mm Pitch BTB Plug Conn.
SMT D/R S/T H=0.83mm Type



Electrical

Voltage : 60V AC/DC (Per Pin)
Current : 0.3A (Per Pin)
Contact Resistance : 70mΩ max.
Dielectric Withstanding Voltage : 150V AC/rms
Insulation Resistance : 1000 MΩ min.
Operating Temp. : -55°C ~ +85°C

Reference Information

Mated P/N : 51024
★ High Speed Product : SATA gen3 - USB3.0 - Type C

51024 Series

0.4mm Pitch BTB Rcpt. Conn.
SMT D/R S/T H=0.97mm Type



Electrical

Voltage : 60V AC/DC (Per Pin)
Current : 0.3A (Per Pin)
Contact Resistance : 70mΩ max.
Dielectric Withstanding Voltage : 150V AC/rms
Insulation Resistance : 1000 MΩ min.
Operating Temp. : -55°C ~ +85°C

Reference Information

Mated P/N : 51023
★ High Speed Product : SATA gen3 - USB3.0 - Type C

50185 Series

0.4mm Pitch BTB Plug Conn.
SMT D/R S/T H=1.2mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 70mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
OperatingTemp : -55°C ~ +85°C

Reference Information

Mated P/N : 51049,50170,
50010, 50009.
★ High Speed Product : SATA gen3 - USB3.0

51049 Series

0.4mm Pitch BTB Rcpt.Conn.
SMT D/R S/T H=1.34mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 55mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
OperatingTemp : -55°C ~ +80°C

Reference Information

Mated P/N : 50185, 50011
★ High Speed Product : SATA gen3 - USB3.0

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『 Board To Board Connector 』

50011 Series

0.4mm Pitch BTB Plug Conn.
SMT D/R S/T H=1.64mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 55mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
OperatingTemp : -40°C ~ +80°C

Reference Information

Mated P/N : 51050、51049、50012

50180 Series

0.4mm Pitch BTB Rcpt. Conn.
SMT D/R S/T H=3.4mm Type



Electrical

Voltage : 50V AC (per pin)
Current : 0.5A (per pin)
Contact Resistance : 70mΩ max.
Dielectric Withstanding Voltage : 250V AC
Insulation Resistance : 1000 MΩ min.
Operating Temp. : -40°C ~ +80°C

Reference Information

Mated P/N : 50177

50013 Series

0.5mm Pitch BTB Plug Conn.
SMT D/R S/T H=2.3mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 55mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
OperatingTemp : -40°C ~ +80°C

Reference Information

Mated P/N : 50014

50014 Series

0.5mm Pitch BTB Plug Conn.
SMT D/R S/T H=2.3mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 55mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
OperatingTemp : -40°C ~ +80°C

Reference Information

Mated P/N : 50013

51005 Series

0.5mm Pitch BTB Plug Conn.
SMT D/R S/T H=2.8mm Type



Electrical

Voltage : 100V AC (Per Pin)
Current : 0.5Amperes (Per Pin)
Contact Resistance : 50mΩ max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 1000 MΩ min.
Operating Temp. : -40°C ~ +85°C

Reference Information

Mated P/N : 50014,51006

51006 Series

0.5mm Pitch BTB Rcpt. Conn.
SMT D/R S/T H=2.2mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.3 Amperes (per pin)
Contact Resistance : 55mΩ max.
Dielectric Withstanding Voltage : 150 VAC Min.
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +85°C

Reference Information

Mated P/N : 51005

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『 Board To Board Connector 』

51038 Series

0.80mm Pitch BTB Plug Conn.
SMT D/R S/T H=4.65mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 40mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +85°C

Reference Information

Mated P/N : 51039

51039 Series

0.80mm Pitch BTB Rcpt. Conn.
SMT D/R S/T H=3.8mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 40mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +85°C

Reference Information

Mated P/N : 51038 、 51053

50111 Series

0.8mm BTB D/R Plug Conn.
SMT D/R S/T H=2.84mm Type



Electrical

Voltage : 100V AC (Per Pin)
Current : 0.5Amperes (Per Pin)
Contact Resistance : 50mΩ max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 1000 MΩ min.
Operating Temp. : -40°C ~ +85°C

Reference Information

Mated P/N : 50105,50106,50103,50104,50164,50128
51039,50100

50100 Series

0.8mm Pitch BTB Rcpt.Conn.
SMT D/R S/T H=2.35mm Type



Electrical

Voltage : 100V AC (Per Pin)
Current : 0.5Amperes (Per Pin)
Contact Resistance : 50mΩ max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 1000 MΩ min.
Operating Temp. : -55°C ~ +85°C

Reference Information

Mated P/N : 50107,50110,50109,50111,50112,50113
50114,50115,50116,50117,50118,50119,50120,50121
50122,50123,50124,50125,50126,50127,50189
★ High Speed Product : USB3.0

51035 Series

1.25mm Pitch BTB Plug Conn.
SMT D/R S/T H=4.25mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 50mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -30°C ~ +105°C

Reference Information

Mated P/N : 51036

51036 Series

1.25mm Pitch BTB Rcpt. Conn.
SMT D/R S/T H=3.4mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 50mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -30°C ~ +105°C

Reference Information

Mated P/N : 51035

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Product Profile



ACES
WTB Conn.



『Wire To Board Connector』

Photos	Product Family	Product Family Description
	IDC Type	0.6/0.8/1.0mm pitch wire-to-board insulation displacement connector. Compact and low profile feature with the lowest height of 1.2mm to 3.0mm availability.
	Crimping Type	1.0/1.25/1.5/2.0/2.5mm pitch wire-to-board connector series are designed for a wide variety of applications in Industrial and Consumer markets. The range consists of terminals, crimp housings and PCB headers in straight and right angle, surface mount and through mount configurations. Single row and double row design with space saving , available from 2 to 60 circuits.
	Power Type	1.2/1.5/2.0mm pitch wire to board connectors are low profile and compact with pin count availability for 2~18 circuits. The low profile and compact design of the connector gives its advantage in applications where space is tight and also offer larger current for battery usage.
	Lock type	These highly reliable connectors are available in surface mount and through mount, single row and double row, side and top entry configurations. They incorporate both polarization and a secure locking feature designed to provide strong mating retention for consumer, commercial and industrial applications.



『Wire To Board Connector』

Family	TYPE	P / N	Pitch (mm)	PCB Mounting	Operation Direction	Product Height (mm)	Mated P/N	Current Rating(A)	Note ★ High Speed ◎ Key P/N
IDC Type	IDC Male	50376	0.6	SMT	S/R R/A	1.58	51224	AWG#34 0.5A AWG#36 0.5A	◎
	IDC Female	51224	0.6	-	-	1.37	50376		
IDC Type	IDC Male	50208	0.8	SMT	S/R R/A	1.7	50375	AWG#32 0.7A	◎
	IDC Female	50375	0.8	-	-	1.65	50208		
IDC Type	IDC Male	50209	0.8	SMT	S/R R/A	1.85	50410	AWG#34 0.5A	
	IDC Female	50410	0.8	-	-	1.65	50209		
IDC Type	IDC Male	51232	0.8	SMT	S/R R/A	1.2	51233	AWG#32 1.0A	◎
	IDC Female	51233	0.8	-	-	1.03	51232		
IDC Type	IDC Male	50214	1.0	SMT	S/R R/A	2.0	50216	AWG#32 0.5A	◎
	IDC Female	50216	1.0	-	-	2.0	50214		
IDC Type	IDC Male	51309	1.25	SMT	S/R R/A	4.15	51308	AWG#26 2A	◎
	IDC Female	51308	1.25	-	-	4.15	51309		

Crimping Type	Wafer	50224	1.0	SMT	S/R R/A	2.9	50233 87214-W	AWG#28 1.5A AWG#30 1.0A AWG#32 0.8A	◎
	Housing	50233	1.0	-	S/R	2.8	50224 87214-W		
	Terminal	87214-W	1.0	-	-	-	50224 50233		
Crimping Type	Wafer	50238	1.0	SMT	D/R S/T	4.6	50247 87214-W	AWG#28:2.0A AWG#30:1.0A AWG#32:1.0A	
	Housing	50247	1.0	-	D/R	4.9	50238 87214-W		
	Terminal	87214-W	1.0	-	-	-	50238 50247		
Crimping Type	Wafer	50257	1.0	SMT	D/R R/A	4.68	50258 88252-0001	AWG#28 1A AWG#30 1A AWG#32 1A	
	Housing	50258	1.0	-	D/R	-	50257 88252-0001		
	Terminal	88252-0001	1.0	-	-	-	50257 50258		

★ High Speed (SATA gen3 - USB3.0 - Type C)
◎ Key P/N

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『Wire To Board Connector』

Family	TYPE	P / N	Pitch (mm)	PCB Mounting	Operation Direction	Product Height (mm)	Mated P/N	Current Rating(A)	Note ★ High Speed ◎ Key P/N
Crimping Type	Wafer	50281	1.25	SMT	S/R R/A	2.03	50285 88267-W	AWG#28 1.0A AWG#30 1.0A AWG#32 0.8A	
	Housing	50285	1.25	-	-	1.8	50281 88267-W		
	Terminal	88267-W	1.25	-	-	-	50281 50285		
Crimping Type	Wafer	51241	1.25	SMT	S/R S/T	4.9	50276 85206-T	AWG#28 1.0A AWG#30 1.0A AWG#32 0.8A	◎
	Housing	50276	1.25	-	-	3.2	51241 85206-T		
	Terminal	85206-T	1.25	-	-	-	51241 50276		
Crimping Type	Wafer	51280	1.25	SMT	S/R R/A	2.15	50280 50280-T	AWG#26 2.3A AWG#28 1.8A AWG#30 1.0A AWG#32 0.8A	
	Housing	50280	1.25	-	-	1.75	51280 50280-T		
	Terminal	50280-T	1.25	-	-	-	51280 50280		
Crimping Type	Wafer	50290	1.50	SMT	S/R R/A	4.45	50294 91203-000	AWG#24 3.0A AWG#26 3.0A AWG#28 2.5A AWG#30 1.5A	
	Housing	50294	1.50	-	-	3.35	50290 91203-000		
	Terminal	91203	1.50	-	-	-	50290 50294		
Crimping Type	Wafer	50308	2.0	SMT	S/R R/A	5.8	50389 86809-T	AWG#24 2.0A AWG#26 1.5A AWG#28 1.0A	
	Housing	50389	2.0	-	S/R	-	50308 86809-T		
	Terminal	86809-T	2.0	-	-	-	50308 50389		

★ High Speed (SATA gen3、USB3.0、Type C)
◎ Key P/N

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『Wire To Board Connector』

Family	TYPE	P / N	Pitch (mm)	PCB Mounting	Operation Direction	Product Height (mm)	Mated P/N	Current Rating(A)	Note ★ High Speed ◎ Key P/N
Power Type	Wafer	51263	1.20	SMT	S/R S/T	1.2	51264 51264-T	AWG#28 3A AWG#30 2.5A	◎
	Housing	51264	1.20	-	-	1.2	51263 51264-T		
	Terminal	51264-T	1.20	-	-	-	51263 51264		
Power Type	Wafer	51269	1.20	SMT	S/R S/T	1.2	51270-002 51270-T	AWG#28 3A AWG#30 2A	
	Housing	51270-002	1.20	-	-	0.95	51269 51270-T		
	Terminal	51270-T	1.20	-	-	-	51269 51270-002		
Power Type	Wafer	51273	1.20	SMT	S/R S/T	1.45	50270 91224	AWG#28 3A AWG#30 2A	◎
	Housing	50270	1.20	-	-	1.2	51273 91224		
	Terminal	91224	1.20	-	-	-	51273 50270		
Power Type	Wafer	51491	1.20	SMT	S/R S/T	1.2	51492 51492-T	AWG#26 3A	◎
	Housing	51492	1.20	-	-	1.2	51491 51492-T		
	Terminal	51492-T	1.20	-	-	-	51491 51492		
Power Type	Wafer	51202	1.50	SMT	S/R R/A	2.76	51203 51203-T	AWG#24 4A AWG#26 3A	◎
	Housing	51203	1.50	-	-	2.38	51202 51203-T		
	Terminal	51203-T	1.50	-	-	-	51202 51203		
Power Type	Wafer	50458	2.0	SMT	S/R R/A	2.14	50459 50459-T01	AWG#24 3.5A AWG#26 3.5A AWG#28 3.0A	◎
	Housing	50459	2.0	-	S/R	-	50458 50459-T01		
	Terminal	50459-T01	2.0	-	-	-	50458 50459		
Power Type	Wafer	51306	2.0	SMT	S/R R/A	2.26	50459 50459-T07	AWG#24 4.0A AWG#26 3.5A AWG#28 3.5A	◎
	Housing	50459	2.0	-	S/R	1.85	51306 50459-T07		
	Terminal	50459-T07	2.0	-	-	-	51306 50459		

★ High Speed (SATA gen3 - USB3.0 - Type C)
◎ Key P/N

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『Wire To Board Connector』

Family	TYPE	P / N	Pitch (mm)	PCB Mounting	Operation Direction	Product Height (mm)	Mated P/N	Current Rating(A)	Note ★ High Speed ◎ Key P/N
Lock Type	Wafer	51281	3.96	T/H	S/R S/T	10.9	51282 51282-T	AWG#16 10A AWG#22 4A	◎
	Housing	51282	3.96	-	S/R	10.5	51281 51282-T		
	Terminal	51282-T	3.96	-	-	-	51281 51282		
Lock Type	Wafer	51283	2.50	T/H	S/R S/T	7.0	51284 51284-T	AWG#22 3A	◎
	Housing	51284	2.50	-	S/R	4.95	51283 51284-T		
	Terminal	51284-T	2.50	-	-	-	51283 51284		
Lock Type	Wafer	51209	2.0	T/H	S/R S/T	7.8	51210 51210-T	AWG#22 3.0A AWG#24 2.0A AWG#26 1.0A AWG#28 1.0A	◎
	Housing	51210	2.0	-	S/R	6.05	51209 51210-T		
	Terminal	51210-T	2.0	-	-	-	51209 51210		
Lock Type	Wafer	51323	1.25	SMT	D/R R/A	7.75	51324 51324-T	AWG#26 1.5A AWG#28 1.0A AWG#30 1.0A	◎
	Housing	51324	1.25	-	D/R	7.35	51323 51324-T		
	Terminal	51324-T	1.25	-	-	-	51323 51324		
Lock Type	Wafer	50429	1.0	SMT	S/R S/T	3.5	50430 50430-T	AWG#28 1.0A AWG#30 1.0A AWG#32 0.8A	
	Housing	50430	1.0	-	S/R	3.6	50429 50430-T		
	Terminal	50430-T	1.0	-	-	-	50429 50430		

★ High Speed (SATA gen3、USB3.0、Type C)

◎ Key P/N

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『 Wire To Board Connector 』

50376 Series

0.6mm Pitch WTB IDC Male Conn.
SMT S/R R/A H=1.60mm Type



Electrical

Voltage : 30V AC (Per Pin)
Current : AWG#34/0.5A ~ AWG#36/0.5A
Contact Resistance : 50mΩ max.
Dielectric Withstanding Voltage : 200V AC/rms
Insulation Resistance : 100 MΩ min.
OperatingTemp : -40°C ~ +85°C

Reference Information

Mated P/N : 51224

51224 Series

0.6mm Pitch WTB IDC Female Conn.



Electrical

Voltage : 30V AC (Per Pin)
Current : AWG#34/0.5A ~ AWG#36/0.5A
Contact Resistance : 50mΩ max.
Dielectric Withstanding Voltage : 200V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -40°C ~ +85°C

Reference Information

Mated P/N : 50376

51232 Series

0.8mm Pitch WTB IDC Male Conn.
SMT S/R R/A H=1.2mm Type



Electrical

Voltage : 30V AC (Per Pin)
Current : AWG#32/1.0 A
Contact Resistance : 40mΩ max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 100 MΩ min.
OperatingTemp : -40°C ~ +85°C

Reference Information

Mated P/N : 51233

51233 Series

0.8mm Pitch WTB IDC Female Conn.



Electrical

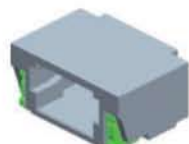
Voltage : 30V AC (Per Pin)
Current : AWG#32/1.0 A
Contact Resistance : 40mΩ max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 100 MΩ min.
OperatingTemp : -40°C ~ +85°C

Reference Information

Mated P/N : 51232

50208 Series

0.8mm Pitch WTB IDC Male Conn.
SMT S/R R/A H=1.70mm Type



Electrical

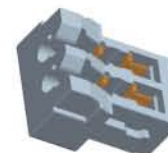
Voltage : 36V AC (Per Pin)
Current : AWG#32/0.7A
Contact Resistance : 40mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -25°C ~ +85°C

Reference Information

Mated P/N : 50375

50375 Series

0.8mm Pitch WTB IDC Female Conn.



Electrical

Voltage : 50V AC (Per Pin)
Current : AWG#32/0.7A
Contact Resistance : 40mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -25°C ~ +85°C

Reference Information

Mated P/N : 50208

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『Wire To Board Connector』

50214 Series

1.0mm Pitch WTB IDC Male Conn.
SMT S/R R/A H=2.0mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : AWG#32/0.5A
Contact Resistance : 40mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 MΩ min.
Operating Temp. : -40°C ~ + 85°C

Reference Information

Mated P/N : 50216

50216 Series

1.0mm Pitch WTB IDC Female Conn.



Electrical

Voltage : 50V AC (Per Pin)
Current : AWG#32/0.5A
Contact Resistance : 40mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 MΩ min.
Operating Temp. : -40°C ~ + 85°C

Reference Information

Mated P/N : 50214

51309 Series

1.25 mm Pitch IDC Male Conn.
SMT S/R R/A H=4.15mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : AWG#26/2.0A
Contact Resistance : 30mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -25°C ~ +75°C

Reference Information

Mated P/N : 51308

51308 Series

1.25 mm Pitch IDC Female Conn.



Electrical

Voltage : 50V AC (Per Pin)
Current : AWG#26/2.0A
Contact Resistance : 30mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -25°C ~ +75°C

Reference Information

Mated P/N : 51309

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『 Wire To Board Connector 』

51263 Series

1.2mm Pitch WTB Wafer Conn.
SMT S/R S/T H=1.2mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : AWG#28/3.0A ~ AWG#30/2.5A
Contact Resistance : 20m Ω max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 M Ω min.
OperatingTemp : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

Reference Information

Mated Housing : 51264
Mated Terminal : 51264-T

51264 Series

1.2mm Pitch WTB Housing



Electrical

Voltage : 50V AC (Per Pin)
Contact Resistance : 20m Ω max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

Reference Information

Mated Wafer : 51263
Mated Terminal : 51264-T

51264-T Series

1.2mm Pitch WTB Crimp Terminal



Electrical

Voltage : 50V AC (Per Pin)
Current : AWG#28/3.0A ~ AWG#30/2.5A
Contact Resistance : 20m Ω max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 M Ω min.
OperatingTemp : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

Reference Information

Mated Wafer : 51263
Mated Housing : 51264

51491 Series

1.2mm Pitch WTB Wafer Conn.
SMT S/R S/T H=1.20mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : AWG#26/3A
Contact Resistance : 20m Ω max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 M Ω min.
OperatingTemp : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

Reference Information

Mated Housing : 51492
Mated Terminal : 51492-T

51492 Series

1.2mm Pitch WTB Housing



Electrical

Voltage : 50V AC (Per Pin)
Contact Resistance : 20m Ω max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

Reference Information

Mated Wafer : 51491
Mated Terminal : 51492-T

51492-T Series

1.2mm Pitch WTB Crimp Terminal



Electrical

Voltage : 50V AC (Per Pin)
Current : AWG#26/3A
Contact Resistance : 20m Ω max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

Reference Information

Mated Wafer : 51491
Mated Housing : 51492

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『Wire To Board Connector』

51273 Series

1.2mm Pitch WTB Wafer Conn
SMT S/R S/T H=1.45mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : AWG#28/3.0A ~ AWG#30/2.0A
Contact Resistance : 20mΩ max. ~ 40mΩ max
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -25°C ~ +85°C

Reference Information

Mated Housing : 50270
Mated Terminal : 91224

50270 Series

1.2mm Pitch WTB Housing



Electrical

Voltage : 50V AC (Per Pin)
Contact Resistance : 40mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -25°C ~ +85°C

Reference Information

Mated Wafer: 51273
Mated Terminal: 91224

91224 Series

1.2mm Pitch WTB Crimp Terminal



Electrical

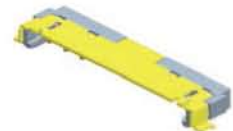
Voltage : 50V AC(Per Pin)
Current : AWG#28/3.0A ~ AWG#30/2.0A
Contact Resistance : 40mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -25°C ~ +85°C

Reference Information

Mated wafer : 51273
Mated Housing : 50270

51306 Series

2.0mm Pitch WTB Wafer Conn.
SMT S/R R/A H=2.02mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : AWG#24/4.0A ~ AWG#26/3.5A ~ AWG#28/3.5A
Contact Resistance : 20mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +80°C

Reference Information

Mated Housing : 50459
Mated Terminal : 50459-T07

50459 Series

2.0mm Pitch WTB Housing



Electrical

Voltage : 50V
Contact Resistance : 20mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +80°C

Reference Information

Mated Wafer : 51306
Mated Terminal : 50459-T07

50459-T07 Series

2.0mm WTB Crimp Terminal



Electrical

Voltage : 50V AC (Per Pin)
Current : AWG#24/4.0A ~ AWG#26/3.5A ~ AWG#28/3.5A
Contact Resistance : 20mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +80°C

Reference Information

Mated Wafer : 51306
Mated Housing : 50459

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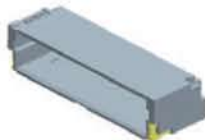
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『 Wire To Board Connector 』

50224 Series

1.0mm Pitch WTB Wafer Conn.
SMT S/R R/A H=2.9mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : AWG#28/1.5A 、 AWG#30/1.0A 、 AWG#32/0.8A
Contact Resistance : 10mΩ max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 100 MΩ min.
OperatingTemp : -40°C ~ +85°C

Reference Information

Mated Housing : 50233
Mated Terminal : 87214-W

50233 Series

1.0mm Pitch WTB Housing



Electrical

Voltage : 50V AC (Per Pin)
Contact Resistance : 55mΩ max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -40°C ~ +85°C

Reference Information

Mated Wafer : 50224
Mated Terminal : 87214-W

87214-W Series

1.0mm Pitch WTB Crimp Terminal



Electrical

Voltage : 50V AC (Per Pin)
Current : AWG#28/1.5A 、 AWG#30/1.0A 、 AWG#32/0.8A
Contact Resistance : 55mΩ max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 100 MΩ min.
OperatingTemp : -40°C ~ +85°C

Reference Information

Mated Wafer : 50224
Mated Housing : 50233

51241 Series

1.25mm Pitch WTB Wafer Conn.
SMT S/R S/T H=4.9mm type



Electrical

Voltage : 125V AC (Per Pin)
Current : AWG#28/1.0A 、 AWG#30/1.0A 、 AWG#32/0.8A
Contact Resistance : 55mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 100 MΩ min.
OperatingTemp : -45°C ~ +85°C

Reference Information

Mated Housing : 50276
Mated Terminal : 85206-T

50276 Series

1.25mm Pitch WTB Housing



Electrical

Voltage : 100V AC (Per Pin)
Contact Resistance : 55mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 200 MΩ min.
Operating Temp. : -25°C ~ +85°C

Reference Information

Mated Wafer : 51241
Mated Terminal : 85206-T

85206-T Series

1.25mm Pitch WTB Crimp Terminal



Electrical

Voltage : 125V AC (Per Pin)
Current : AWG#28/1.0A 、 AWG#30/1.0A 、 AWG#32/0.8A
Contact Resistance : 20mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -40°C ~ +85°C

Reference Information

Mated Wafer : 51241
Mated Housing : 50276

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『Wire To Board Connector』

51202 Series

1.5mm Pitch WTB Wafer Conn.
SMT S/R R/A H=2.76mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : AWG#24/4.0A ~ AWG#26/3.0A
Contact Resistance : 40mΩ max
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +85°C

Reference Information

Mated Housing : 51203
Mated Terminal : 51203-T

51203 Series

1.5mm Pitch WTB Housing



Electrical

Voltage : 50V AC (Per Pin)
Contact Resistance : 20mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +85°C

Reference Information

Mated Wafer : 51202
Mated Terminal : 51203-T

51203-T Series

1.5mm Pitch WTB Crimp Terminal



Electrical

Voltage : 50V AC (Per Pin)
Current : AWG#24/4A ~ AWG#26/3A
Contact Resistance : 20mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +85°C

Reference Information

Mated Wafer : 51203
Mated Housing : 51202

50458 Series

2.0mm Pitch WTB Wafer Conn.
SMT S/R R/A H=2.02mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : AWG#24/3.5A ~ AWG#26/3.5A ~ AWG#28/3.0A
Contact Resistance : 20mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +80°C

Reference Information

Mated Housing : 50459
Mated Terminal : 50459-T01

50459 Series

2.0mm Pitch WTB Housing



Electrical

Voltage : 50V AC (Per Pin)
Contact Resistance : 20mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +80°C

Reference Information

Mated Wafer : 50458
Mated Terminal : 50459-T01

50459-T Series

2.0mm Pitch WTB Crimp Terminal



Electrical

Voltage : 50V AC (Per Pin)
Current : AWG#24/3.5A ~ AWG#26/3.5A ~ AWG#28/3.0A
Contact Resistance : 20mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +80°C

Reference Information

Mated Wafer : 50458
Mated Housing : 50459

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『 Wire To Board Connector 』

51323 Series

1.25mm Pitch WTB Wafer Conn
SMT D/R /R/A H=7.75mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : AWG#26/1.5A - AWG#28/1.0A - AWG#30/1.0A
Contact Resistance : 50mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
OperatingTemp : -40°C ~ +85°C

Reference Information

Mated Housing : 51324
Mated Terminal : 51324-T

51324 Series

1.25mm Pitch WTB Housing



Electrical

Voltage : 50V AC (Per Pin)
Contact Resistance : 20mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -40°C ~ +85°C

Reference Information

Mated Wafer : 51323
Mated Terminal : 51324-T

51324-T Series

1.25mm Pitch WTB Crimp Terminal



Electrical

Voltage : 50V AC / DC (r.m.s)
Current : AWG#26/1.5A - AWG#28/1.0A - AWG#30/1.0A
Contact Resistance : 20mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
OperatingTemp : -40°C ~ +85°C

Reference Information

Mated Wafer : 51323
Mated Housing : 51324

51209 Series

2.0mm Pitch WTB Wafer Conn.
T/H S/R S/T H=7.8mm Type



Electrical

Voltage : 30V AC (Per Pin)
Current : AWG#22/3.0A - AWG#24/2.0A - AWG#26/1.0A - AWG#28/1.0A
Contact Resistance : 30mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
OperatingTemp : -40°C ~ +85°C

Reference Information

Mated Housing : 51210
Mated Terminal : 51210-T

51210 Series

2.0mm Pitch WTB Housing



Electrical

Voltage : 30V AC (Per Pin)
Contact Resistance : 30mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -40°C ~ +85°C

Reference Information

Mated Wafer : 51209
Mated Terminal : 51210-T

51210-T Series

2.0mm Pitch WTB Crimp Terminal



Electrical

Voltage : 30V AC (Per Pin)
Current : AWG#22/3.0A - AWG#24/2.0A - AWG#26/1.0A - AWG#28/1.0A
Contact Resistance : 30mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -40°C ~ +85°C

Reference Information

Mated Wafer : 51209
Mated Housing : 51210

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『 Wire To Board Connector 』

51283 Series

2.5mm Pitch WTB Wafer Conn.
T/H S/R S/T H=7.0mm Type



Electrical

Voltage : 25V AC (Per Pin)
Current : AWG#22/3.0A
Contact Resistance : 20mΩ max
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +85°C

Reference Information

Mated Housing : 51284
Mated Terminal : 51284-T

51284 Series

2.5mm Pitch WTB Housing



Electrical

Voltage : 250V AC (Per Pin)
Contact Resistance : 20mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +85°C

Reference Information

Mated Wafer : 51283
Mated Terminal : 51284-T

51284-T Series

2.5mm Pitch WTB Crimp Terminal



Electrical

Voltage : 250V AC (Per Pin)
Current : AWG#22/3.0A
Contact Resistance : 20mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +85°C

Reference Information

Mated Housing : 51284
Mated Wafer : 51283

51281 Series

3.96mm Pitch WTB Wafer Conn.
T/H S/R S/T H=10.9mm Type



Electrical

Voltage : 250V AC (Per Pin)
Current : AWG#16/10A - AWG# 22/4A
Contact Resistance : 50mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +80°C

Reference Information

Mated Housing : 51282
Mated Terminal : 51282-T

51282 Series

3.96mm Pitch WTB Housing



Electrical

Voltage : 250V AC (Per Pin)
Contact Resistance : 50mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +80°C

Reference Information

Mated Wafer : 51281
Mated Housing : 51282-T

51282-T Series

3.96mm Pitch WTB Crimp Terminal



Electrical

Voltage : 250V AC (Per Pin)
Current : AWG#16/10A - AWG# 22/4A
Contact Resistance : 50mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +85°C

Reference Information

Mated Wafer : 51281
Mated Housing : 51282

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FFC / FPC Conn.






Product Profile

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『 FFC/FPC Connector 』

Photos	Product Family	Product Family Description
	Easy on	<p>The easy insertion of FPC/FFC connections are provided by a guide devised from a fastener with rotary actuator.</p> <p>The can integrated actuator retains the FPC at all contact points to ensure secure connection, even with multiple contacts.</p> <p>This connector is the low cost solution for many board-to-cable applications on various devices.</p>
	ZIF	<p>ACES offers a wide variety of connectors for flat flexible cable (FFC) and flexible printed circuitry (FPC). Included in this FFC/FPC family are connectors with actuators on 0.5, 0.8, and 1.0mm pitch. Actuators are pre-assembled covers that secure the connection between the FFC/FPC and the connector terminals.</p> <p>ACES also offers a wide variety of ultra low-profile SMT FFC/FPC connectors for tight packaging applications. Features include profile heights as low as 1.0mm, pull-type actuators, straight and right-angle versions.</p>
	Non-ZIF	<p>Suitable for heavy insertion force.</p> <p>SMT and T/H type for automatic mounting.</p> <p>Right-angle and straight type are available.</p> <p>Variety of product height is 1.2mm to 5.3mm.</p>

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『FFC/FPC Connector』

TYPE	P / N	Pitch (mm)	PCB Mounting	Operation Direction	Contact Position	Product Height (mm)	Cable Thickness (mm)	Note ★ High Speed ◎ Key P/N
Easy-on Front Flip	51607	0.3	SMT	R/A	B/C	1.06	0.2±0.03	◎
Easy-on Front Flip	50515	0.3	SMT	R/A	B/C	1.20	0.2±0.03	◎
Easy-on Front Flip	50517	0.4	SMT	R/A	B/C	1.20	0.2±0.03	
Easy-on Front Flip	51614	0.5	SMT	R/A	B/C	0.98	0.3±0.03	◎
Easy-on Front Flip	51651	0.5	SMT	R/A	B/C	1.10	0.3±0.03	◎
Easy-on Front Flip	51536	0.5	SMT	R/A	B/C	1.20	0.3±0.03	
Easy-on Front Flip	51569	0.5	SMT	R/A	B/C	1.45	0.3±0.03	
Easy-on Front Flip	50675	0.5	SMT	R/A	B/C	1.50	0.3±0.03	
Easy-on Front Flip	51578	0.5	SMT	R/A	B/C	1.50	0.3±0.03	
Easy-on Front Flip	51579	0.5	SMT	R/A	B/C	1.50	0.3±0.03	◎
Easy-on Front Flip	51530	0.5	SMT	R/A	B/C	1.80	0.3±0.03	★
Easy-on Front Flip	51540	0.5	SMT	R/A	B/C	1.80	0.3±0.03	★ ◎
Easy-on Front Flip	51625	0.5	SMT	R/A	B/C	1.80	0.3±0.03	★ ◎
Easy-on Front Flip	51639	0.5	SMT	R/A	B/C	1.80	0.3±0.03	
Easy-on Front Flip	51656	0.5	SMT	R/A	B/C	1.80	0.3±0.03	
Easy-on Front Flip	51519	0.5	SMT	R/A	B/C	2.00	0.3±0.03	
Easy-on Front Flip	51619	0.5	SMT	R/A	B/C	2.00	0.3±0.03	◎
Easy-on Front Flip	51652	0.5	SMT	R/A	B/C	2.00	0.3±0.03	◎
Easy-on Front Flip	51636	0.5	SMT	R/A	B/C	2.20	0.32±0.03	◎
Easy-on Front Flip	50520	0.5	SMT	R/A	B/C	2.50	0.3±0.03	◎
Easy-on Front Flip	50699	0.8	SMT	R/A	B/C	1.20	0.2±0.03	

★ High Speed (SATA gen3、USB3.0、Type C)
◎ Key P/N

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『FFC/FPC Connector』

TYPE	P / N	Pitch (mm)	PCB Mounting	Operation Direction	Contact Position	Product Height (mm)	Cable Thickness (mm)	Note ★ High Speed ◎ Key P/N
Easy-on Front Flip	51561	0.8	SMT	R/A	B/C	1.50	0.3±0.03	
Easy-on Front Flip	51631	0.8	SMT	R/A	T/C	1.50	0.2±0.03	
Easy-on Front Flip	51617	0.8	SMT	R/A	B/C	1.75	0.3±0.03	
Easy-on Front Flip	51661	0.8	SMT	R/A	B/C	1.80	0.3±0.03	
Easy-on Front Flip	50519	0.8	SMT	R/A	B/C	2.00	0.3±0.03	
Easy-on Front Flip	51510	0.8	SMT	R/A	B/C	2.00	0.3±0.03	
Easy-on Front Flip	51643	0.8	SMT	R/A	B/C	2.00	0.3±0.03	
Easy-on Front Flip	51572	1.0	SMT	R/A	B/C	1.00	0.3±0.03	
Easy-on Front Flip	51637	1.0	SMT	R/A	B/C	1.00	0.3±0.03	◎
Easy-on Front Flip	51571	1.0	SMT	R/A	B/C	1.20	0.3±0.03	
Easy-on Front Flip	51590	1.0	SMT	R/A	B/C	1.20	0.3±0.03	
Easy-on Front Flip	51574	1.0	SMT	R/A	B/C	1.30	0.3±0.03	
Easy-on Front Flip	51570	1.0	SMT	R/A	B/C	1.45	0.3±0.03	
Easy-on Front Flip	50505	1.0	SMT	R/A	B/C	1.50	0.3±0.03	◎
Easy-on Front Flip	51586	1.0	SMT	R/A	B/C	1.60	0.3±0.03	
Easy-on Front Flip	51503	1.0	SMT	R/A	B/C	1.80	0.3±0.03	
Easy-on Front Flip	51575	1.0	SMT	R/A	B/C	1.80	0.3±0.03	
Easy-on Front Flip	51629	1.0	SMT	R/A	B/C	1.80	0.3±0.03	
Easy-on Front Flip	51678	1.0	SMT	R/A	B/C	1.80	0.3±0.03	◎
Easy-on Front Flip	51581	1.0	SMT	R/A	B/C	2.00	0.3±0.03	
Easy-on Front Flip	51593	1.0	SMT	R/A	B/C	2.00	0.3±0.03	

★ High Speed (SATA gen3 - USB3.0 - Type C)
◎ Key P/N

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『FFC/FPC Connector』

TYPE	P / N	Pitch (mm)	PCB Mounting	Operation Direction	Contact Position	Product Height (mm)	Cable Thickness (mm)	Note ★ High Speed ◎ Key P/N
Easy-on Front Flip	51653	1.0	SMT	R/A	B/C	2.00	0.3±0.03	◎
Easy-on Front Flip	51654	1.0	SMT	R/A	B/C	2.00	0.3±0.03	
Easy-on Front Flip	51677	1.0	SMT	R/A	B/C	2.00	0.3±0.03	◎
Easy-on Back Flip	51511	0.3	SMT	R/A	D/C	1.00	0.2±0.03	
Easy-on Back Flip	51585	0.3	SMT	R/A	T/C	1.00	0.2±0.03	
Easy-on Back Flip	51688	0.3	SMT	R/A	D/C	1.00	0.2±0.03	◎
Easy-on Back Flip	51515	0.3	SMT	R/A	D/C	1.10	0.2±0.03	◎
Easy-on Back Flip	50696	0.5	SMT	R/A	D/C	0.98	0.3±0.03	★◎
Easy-on Back Flip	51538	0.5	SMT	R/A	D/C	0.98	0.3±0.03	◎
Easy-on Back Flip	51543	0.5	SMT	R/A	T/C	0.98	0.3±0.03	
Easy-on Back Flip	51539	0.5	SMT	R/A	D/C	1.20	0.3±0.03	★
Easy-on Back Flip	51591	0.8	SMT	R/A	D/C	1.50	0.3±0.03	
Easy-on Back Flip	51596	0.8	SMT	R/A	T/C	1.50	0.3±0.03	◎
Easy-on Back Flip	51612	0.8	SMT	R/A	D/C	1.50	0.3±0.03	◎
Easy-on Back Flip	51660	0.8	SMT	R/A	D/C	1.60	0.3±0.03	◎
Easy-on Back Flip	51601	1.0	SMT	R/A	D/C	0.98	0.3±0.03	
Easy-on Back Flip	51592	1.0	SMT	R/A	D/C	1.50	0.3±0.03	◎
Easy-on Back Flip	50698	1.0	SMT	R/A	D/C	2.45	0.3±0.03	

★ High Speed (SATA gen3 - USB3.0 - Type C)
◎ Key P/N

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『FFC/FPC Connector』

TYPE	P / N	Pitch (mm)	PCB Mounting	Operation Direction	Contact Position	Product Height (mm)	Cable Thickness (mm)	Note ★ High Speed ◎ Key P/N
ZIF	50527	0.5	SMT	R/A	T/C	1.30	0.3±0.03	
ZIF	50528	0.5	SMT	R/A	B/C	1.30	0.3±0.03	
ZIF	50532	0.5	SMT	R/A	T/C	2.00	0.3±0.03	
ZIF	50534	0.5	SMT	R/A	B/C	2.00	0.3±0.03	
ZIF	50541	0.5	SMT	R/A	T/C	2.00	0.3±0.03	
ZIF	50542	0.5	SMT	R/A	B/C	2.00	0.3±0.03	
ZIF	50550	0.5	SMT	S/T	S/C	3.80	0.3±0.03	
ZIF	50552	0.5	SMT	S/T	S/C	4.10	0.3±0.03	
ZIF	51545	0.5	SMT	S/T	S/C	4.10	0.3±0.03	
ZIF	50554	0.5	SMT	S/T	S/C	5.00	0.3±0.03	
ZIF	50559	0.5	SMT	S/T	S/C	5.00	0.3±0.03	
ZIF	50565	0.8	SMT	R/A	T/C	2.00	0.3±0.03	
ZIF	50567	0.8	SMT	R/A	B/C	2.00	0.3±0.03	
ZIF	51646	0.8	SMT	R/A	T/C	2.00	0.3±0.03	◎
ZIF	51597	0.8	SMT	V/T	D/C	6.20	0.3±0.03	◎
ZIF	50583	1.0	SMT	R/A	T/C	2.00	0.3±0.03	
ZIF	50584	1.0	SMT	R/A	T/C	2.00	0.3±0.03	◎
ZIF	50590	1.0	SMT	R/A	T/C	2.00	0.3±0.03	
ZIF	50591	1.0	SMT	R/A	B/C	2.00	0.3±0.03	◎
ZIF	50596	1.0	SMT	R/A	T/C	3.00	0.3±0.03	
ZIF	50597	1.0	SMT	R/A	B/C	3.00	0.3±0.03	
ZIF	50673	1.0	SMT	S/T	S/C	4.10	0.3±0.03	
ZIF	50607	1.0	SMT	S/T	S/C	5.10	0.3±0.03	
ZIF	50611	1.0	SMT	S/T	S/C	5.50	0.3±0.03	

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★ High Speed (SATA gen3 - USB3.0 - Type C)
◎ Key P/N



『FFC/FPC Connector』

TYPE	P / N	Pitch (mm)	PCB Mounting	Operation Direction	Contact Position	Product Height (mm)	Cable Thickness (mm)	Note ★ High Speed ◎ Key P/N
NON ZIF	50620	0.5	SMT	R/A	D/C	1.20	0.3±0.03	
NON ZIF	50623	0.5	SMT	R/A	D/C	2.00	0.3±0.03	
NON ZIF	51602	0.5	SMT	S/T	S/C	4.10	0.3±0.03	
NON ZIF	50630	0.5	SMT	S/T	D/C	5.30	0.3±0.03	
NON ZIF	51512	1.0	SMT	R/A	D/C	1.80	0.3±0.03	
NON ZIF	50639	1.0	SMT	R/A	D/C	2.00	0.3±0.03	
NON ZIF	50686	1.0	SMT	R/A	T/C	3.10	0.3±0.03	◎
NON ZIF	50687	1.0	SMT	R/A	B/C	3.10	0.3±0.03	◎
NON ZIF	51516	1.0	T/H	R/A	T/C	3.60	0.3±0.03	
NON ZIF	50654	1.0	SMT	S/T	S/C	5.00	0.3±0.03	◎
NON ZIF	50657	1.0	T/H	S/T	S/C	5.00	0.3±0.03	
NON ZIF	50661	1.0	SMT	S/T	D/C	5.30	0.3±0.03	

★ High Speed (SATA gen3、USB3.0、Type C)
◎ Key P/N

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『 FFC/FPC Connector 』

51688 Series

0.3mm Pitch Easy-on
Back Flip FPC Conn.
SMT R/A D/C H=1.0mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.2A (Per Pin)
Contact Resistance : 100m Ω max
Dielectric Withstanding Voltage : 150V AC/rms
Insulation Resistance : 1000 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ + 85 $^{\circ}$ C

51515 Series

0.3mm Pitch Easy-on
Back Flip FPC Conn.
SMT R/A D/C H=1.1mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.2A (Per Pin)
Contact Resistance : 50m Ω max.
Dielectric Withstanding Voltage : 125V AC/rms
Insulation Resistance : 50 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ + 85 $^{\circ}$ C

51607 Series

0.3mm Pitch Easy-on FPC Conn.
SMT R/A B/C H=1.06mm Type



Electrical

Voltage : 30V AC (Per Pin)
Current : 0.2A (Per Pin)
Contact Resistance : 100m Ω max.
Dielectric Withstanding Voltage : 90V AC/rms
Insulation Resistance : 50 M Ω min.
Operating Temp. : -55 $^{\circ}$ C ~ +85 $^{\circ}$ C

50515 Series

0.3mm Pitch Easy-on FPC Conn.
SMT R/A B/C H=1.2mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.3A (Per Pin)
Contact Resistance : 80m Ω max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 50 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

50696 Series

0.5mm Pitch Easy-on
Back Flip FPC Conn.
SMT R/A B/C H=1.0mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 60m Ω max.
Dielectric Withstanding Voltage : 200V AC/rms
Insulation Resistance : 500 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ +80 $^{\circ}$ C

Reference Information

★ High Speed Product : USB3.0

51538 Series

0.5mm Pitch Easy-on
Back Flip FPC Conn.
SMT R/A D/C H=1.0mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5 Amperes (per pin)
Contact Resistance : 60m Ω max.
Dielectric Withstanding Voltage : 200V AC/rms
Insulation Resistance : 500 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ +80 $^{\circ}$ C

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『 FFC/FPC Connector 』

51614 Series

0.5mm Pitch Easy-on FFC/FPC Conn.
SMT R/A B/C H=1.0mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 50mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
OperatingTemp : -40°C ~ +85°C

51651 Series

0.5mm Pitch Easy-on FFC/FPC Conn.
SMT R/A B/C H=1.1mm Type

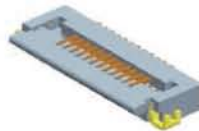


Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 10mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -55°C ~ +85°C

51579 Series

0.5mm Pitch Easy-on FFC/FPC Conn.
SMT R/A B/C H=1.6mm Type



Electrical

Voltage : 50V AC / DC (r.m.s)
Current : 0.5A (Per Pin)
Contact Resistance : 40mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 MΩ min.
OperatingTemp : -40°C ~ +85°C

51540 Series

0.5mm Pitch Easy-on FFC/FPC Conn.
SMT R/A B/C H=1.8mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 100mΩ max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 500 MΩ min.
OperatingTemp : -40°C ~ +85°C

Reference Information

★ High Speed Product : USB3.0

51625 Series

0.5mm Pitch Easy-on FFC/FPC Conn.
SMT R/A B/C H=1.8mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 100mΩ max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +80°C

Reference Information

★ High Speed Product : SATA gen3 - USB3.0

51619 Series

0.5mm Pitch Easy-on FFC/FPC Conn.
SMT R/A B/C H=2.0mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 50mΩ max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +85°C

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『 FFC/FPC Connector 』

51652 Series

0.5mm Pitch Easy-on FFC/FPC Conn.
SMT R/A B/C H=2.0mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 55mΩ max
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +85°C

51636 Series

0.5mm Pitch Easy-on FFC/FPC Conn.
SMT R/A B/C H=2.2mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 55mΩ max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -25°C ~ +85°C

50520 Series

0.5mm Pitch Easy-on FFC/FPC Conn.
SMT R/A B/C H=2.5mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 40mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +85°C

51596 Series

0.8mm Pitch Easy-on
Back Flip FFC/FPC Conn.
SMT R/A T/C H=1.5mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 50mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +85°C

51612 Series

0.8mm Pitch Easy-on
Back Flip FFC/FPC Conn.
SMT R/A D/C H=1.6mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.8A (Per Pin)
Contact Resistance : 60mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
OperatingTemp : -40°C ~ +85°C

51660 Series

0.8mm Pitch Easy-on
Back Flip FFC/FPC Conn.
SMT R/A D/C H=1.6mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.8A (Per Pin)
Contact Resistance : 60mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +85°C

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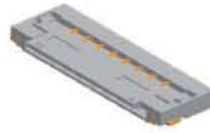
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『 FFC/FPC Connector 』

51637 Series

1.0mm Pitch Easy-on FFC/FPC Conn.
SMT R/A B/C H=1.0mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 55mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
OperatingTemp : -40°C ~ +85°C

50505 Series

1.0mm Pitch Easy-on FFC/FPC Conn.
SMT R/A B/C H=1.5mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 1.0A (Per Pin)
Contact Resistance : 40mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 MΩ min.
OperatingTemp : -40°C ~ +85°C

51592 Series

1.0mm Pitch Easy-on
Back Flip FFC/FPC Conn.
SMT R/A D/C H=1.5mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 50mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +80°C

51678 Series

1.0mm Pitch Easy-on FFC/FPC Conn.
SMT R/A B/C H=1.8mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 40mΩ max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +85°C

51653 Series

1.0mm Pitch Easy-on FFC/FPC Conn.
SMT R/A B/C H=2.0mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 1.0A (Per Pin)
Contact Resistance : 55mΩ max
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ + 85°C

51677 Series

1.0mm Pitch Easy-on FFC/FPC Conn.
SMT R/A B/C H=2.0mm Type

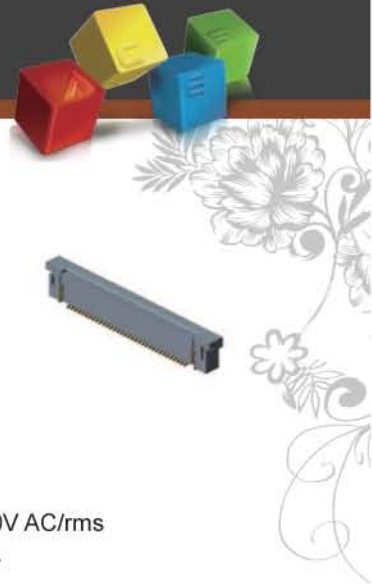


Electrical

Voltage : 50V AC (Per Pin)
Current : 1.0A (Per Pin)
Contact Resistance : 55mΩ max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +85°C

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『 FFC/FPC Connector 』

51646 Series

0.8mm Pitch ZIF FFC/FPC Conn.
SMT R/A T/C H=2.0mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 20mΩ max
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -25°C ~ +85°C

51597 Series

0.8mm Pitch ZIF FFC/FPC Conn.
SMT V/T D/C H=6.2mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 55mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +85°C

50584 Series

1.0mm Pitch ZIF FFC/FPC Conn.
SMT R/A T/C H=1.95mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 55mΩ max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -40°C ~ +80°C

50591 Series

1.0mm Pitch ZIF FFC/FPC Conn.
SMT R/A B/C H=2.0mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 55mΩ max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -40°C ~ +80°C

50686 Series

1.0mm Non-ZIF FFC/FPC Conn.
SMT R/A T/C H=3.1mm Type



Electrical

Voltage : 50 Volts AC (per pin)
Current : 0.5 Amperes (per pin)
Contact Resistance : 55mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -40°C ~ +85°C

50654 Series

1.0mm Non-ZIF FFC/FPC Conn.
SMT S/T S/C H=5.0mm Type



Electrical

Voltage : 50 Volts AC (per pin)
Current : 0.5 Amperes (per pin)
Contact Resistance : 55mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -40°C ~ +85°C

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Product Profile

Aces offers extensive design, engineering and manufacturing to serve variant products in industries that include computer, computer peripherals, business equipment, home entertainment and telecommunications.









ACES
USB Conn.





『USB Connector』

Photos	Product Family	Product Family Description
	USB 3.1 type C	The new USB interface will replace most of IO in the future. ACES has critical technology of Insert molding, high power and high speed design to keep high quality and performance. ACES USB 3.1 type C meet PD spec(100W).
	USB 2.0 A's type C	The competitive cost type C design to meet the application of smart phone, tablet, external HDD, power bank, PC peripherals, etc. USB 2.0 A's type C has strengths of price, low temperature rise, low resistance, and high positive force. ACES USB 2.0 A's type C meet PD spec(100W).
	USB power A's type C	The competitive cost type C design to meet the adapter of NB application. USB power A's type C has strengths of price, low temperature rise, low resistance, and high positive force. ACES USB power A's type C meet PD spec(100W).
	USB 3.0 type A	The Super-speed Universal Serial Bus 3.0 (USB 3.0) offers the transmission speed of up to 5 Gbit/s, reduces power consumption, and is backward compatible with USB 2.0. As a member of the USB Implementer Forum, Aces provides wide range of right angle USB 3.0 A type receptacle connector for a various of applications with low cost and high quality standard.
	USB 2.0 type A	The Universal Serial Bus 2.0 (USB 2.0) released in April 2000 has been one of the most popular I/O connector. Hot plugging, plug-and-play, and High-speed signaling rate (480Mbit/s) are the most significant features. Aces offers USB 2.0 A type receptacle
	Micro USB type B	Micro-USB connector offers smaller size comparing with Standard USB to achieve the thinner and lighter portable devices, such as mobile and tablet.

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『USB Type C Connector』

TYPE	P / N	Pitch (mm)	PCB Mounting	Operation Direction	Center Height (mm)	Note ★ High Speed ◎ Key P/N
USB3.1 type C	55907	-	DIP+SMT	R/A	1.63	★ ◎
USB3.1 type C	54926	-	DIP+SMT	R/A	0.93	★ ◎
USB3.1 type C	55914	-	DIP+SMT	R/A	0.93	★ ◎
USB3.1 type C	55915	-	DIP+SMT	R/A	1.37	★ ◎
USB3.1 type C	55910	-	DIP+SMT	R/A	1.60	★ ◎
USB3.1 type C	55912	-	DIP+SMT	R/A	2.20	★ ◎
USB3.1 type C	55937	-	SMT	N/A	N/A	★ ◎
USB3.1 type C	55918	-	SMT	N/A	N/A	★ ◎
USB2.0 type C	55919	-	SMT	R/A	0.90	◎
USB2.0 type C	55911	-	SMT	N/A	N/A	◎
USB Power type C	55920	-	N/A	N/A	N/A	◎

『USB 3.0 Connector』

USB 3.0 Type A	50928	2.0/2.5	T/H	R/A	-0.36	★ ◎
USB 3.0 Type A	53053	2.0/2.5	T/H	R/A	-2.02	
USB 3.0 Type A	53054	2.0/2.5	T/H	R/A	6.09	
USB 3.0 Type A	53055	2.0/2.5	T/H	R/A	2.10	
USB 3.0 Type A	53056	2.0/2.5	T/H	R/A	2.90	
USB 3.0 Type A	53057	2.0/2.5	T/H	R/A	-1.10	
USB 3.0 Type A	53060	2.0/2.5	T/H	R/A	4.06	★ ◎
USB 3.0 Type A	53062	2.0/2.5	T/H	R/A	-0.84	
USB 3.0 Type A	53061	2.0/2.5	T/H	R/A	2.60	
USB 3.0 Type A	53063	2.0/2.5	T/H	R/A	1.04	

★ High Speed (SATA gen3 - USB3.0 - Type C)
◎ Key P/N

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『USB 3.0 Connector』

TYPE	P / N	Pitch (mm)	PCB Mounting	Operation Direction	Center Height (mm)	Note ★ High Speed ◎ Key P/N
USB 3.0 Type A	53067	2.0/2.5	T/H	R/A	-0.10	
USB 3.0 Type A	53074	2.0/2.5	T/H	R/A	-2.04	
USB 3.0 Type A	53075	2.0/2.5	T/H	R/A	-2.50	
USB 3.0 Type A	53078	2.0/2.5	T/H	R/A	2.10	
USB 3.0 Type A	53079	2.0/2.5	T/H	R/A	0.00	
USB 3.0 Type A	53900	2.0/2.5	T/H	R/A	1.40	
USB 3.0 Type A	53903	2.0/2.5	T/H	R/A	-0.75	
USB 3.0 Type A	53906	2.0/2.5	T/H	R/A	-0.40	
USB 3.0 Type A	53909	2.0/2.5	T/H	R/A	0.40	
USB 3.0 Type A	53913	2.0/2.5	T/H	R/A	4.06	
USB 3.0 Type A	53915	2.0/2.5	T/H	R/A	3.60	
USB 3.0 Type A	53916	2.0/2.5	T/H	R/A	-1.00	
USB 3.0 Type A	53923	2.0/2.5	T/H	R/A	-0.84	
USB 3.0 Type A	53902	2.0/2.5	T/H	R/A	-2.21	
USB 3.0 Type A	53065	2.0/2.5	T/H	R/A	0.00	★ ◎
USB 3.0 Type A	53926	2.0/2.5	T/H	R/A	1.60	★ ◎
USB 3.0 Type A	53051	2.0/2.5	T/H	R/A	-1.00	★ ◎
USB 3.0 Type A	53052	2.0/2.5	T/H	R/A	-1.75	
USB 3.0 Type A	53066	2.0/2.5	T/H	R/A	-0.20	
USB 3.0 Type A	53077	2.0/2.5	T/H	R/A	2.20	
USB 3.0 Type A	53920	2.0/2.5	T/H	R/A	-1.27	
USB 3.0 Type A	53924	2.0/2.5	T/H	R/A	-1.75	
USB 3.0 Type A	53935	2.0/2.5	T/H	R/A	1.80	

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★ High Speed (SATA gen3 - USB3.0 - Type C)
◎ Key P/N



『USB 2.0 Connector』

TYPE	P / N	Pitch (mm)	PCB Mounting	Operation Direction	Center Height (mm)	Note ★ High Speed ◎ Key P/N
USB 2.0 type A	53081	2.0/2.5	T/H	R/A	4.00	◎
USB 2.0 type A	53086	2.0/2.5	T/H	R/A	1.60	◎
USB 2.0 type A	53088	2.0/2.5	T/H	R/A	0.56	
USB 2.0 type A	53089	2.0/2.5	T/H	R/A	-0.20	
USB 2.0 type A	53092	2.0/2.5	T/H	R/A	2.90	
USB 2.0 type A	53093	2.0/2.5	T/H	R/A	0.10	
USB 2.0 type A	53094	2.0/2.5	T/H	R/A	1.40	◎
USB 2.0 type A	53096	2.0/2.5	T/H	R/A	-2.22	
USB 2.0 type A	53097	2.0/2.5	T/H	R/A	0.00	
USB 2.0 type A	55902	2.0/2.5	T/H	S/T	N/A	

Micro USB 2.0 type B	59480	0.65	SMT	R/A	1.25	◎
Micro USB 2.0 type B	59481	0.65	SMT	R/A	1.25	◎
Micro USB 2.0 type B	59482	0.65	SMT	R/A	1.25	
Micro USB 2.0 type B	59483	0.65	SMT	R/A	1.18	
Micro USB 2.0 type B	59487	0.65	SMT	R/A	1.18	
Micro USB 2.0 type B	59488	0.65	SMT	R/A	1.23	
Micro USB 2.0 type B	59489	0.65	SMT	R/A	1.23	
Micro USB 2.0 type B	59486	0.65	SMT	R/A	0.28	◎

★ High Speed (SATA gen3 - USB3.0 - Type C)
◎ Key P/N

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『 USB Type C Connector 』

55907 Series

USB 3.1 Type-C Rcpt. Conn.
Hybrid R/A On-mount CH=1.63mm
Insert depth 6.2mm Type



Electrical

Voltage : 20V AC
Current : 5A (MAX.)
Contact Resistance : 40mΩ max. (initial)
Dielectric Withstanding Voltage : 100V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -30°C ~ +80°C
Mating cycles : 10000

54926 Series

USB 3.1 Type-C Rcpt. Conn.
Hybrid R/A Mid-mount CH=0.93mm
Insert depth 6.2mm Type



Electrical

Voltage : 20V AC
Current : 5A (MAX.)
Contact Resistance : 40mΩ max. (initial)
Dielectric Withstanding Voltage : 100V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -30°C ~ +80°C
Mating cycles : 10000

55914 Series

USB 3.1 Type-C Rcpt. Conn.
Hybrid R/A Mid-mount CH=0.93mm
Insert depth 4.85mm Type



Electrical

Voltage : 20V AC
Current : 5A (MAX.)
Contact Resistance : 40mΩ max. (initial)
Dielectric Withstanding Voltage : 100V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -30°C ~ +80°C
Mating cycles : 10000

55915 Series

USB 3.1 Type-C Rcpt. Conn.
Hybrid R/A Mid-mount CH=1.37mm
Insert depth 5.8mm Type



Electrical

Voltage : 20V AC
Current : 5A (MAX.)
Contact Resistance : 40mΩ max. (initial)
Dielectric Withstanding Voltage : 100V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -30°C ~ +80°C
Mating cycles : 10000

55910 Series

USB 3.1 Type-C Rcpt. Conn.
Hybrid R/A On-mount CH=1.60mm
Insert depth 4.85mm Type



Electrical

Voltage : 20V AC
Current : 5A (MAX.)
Contact Resistance : 40mΩ max. (initial)
Dielectric Withstanding Voltage : 100V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -30°C ~ +80°C
Mating cycles : 10000

55912 Series

USB 3.1 Type-C Rcpt. Conn.
Hybrid R/A On-mount CH=2.20mm
Insert depth 4.85mm Type



Electrical

Voltage : 20V AC
Current : 5A (MAX.)
Contact Resistance : 40mΩ max. (initial)
Dielectric Withstanding Voltage : 100V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -30°C ~ +80°C
Mating cycles : 10000

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『Type C Connector』

55937 Series

USB 3.1 Type-C Plug Conn.
Straddle Extrusion Type



Electrical

Voltage : 20V AC
Current : 5A (MAX.)
Contact Resistance : 40mΩ max. (initial)
Dielectric Withstanding Voltage : 100V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -30°C ~ + 80°C
Mating cycles : 10000

55918 Series

USB 3.1 Type-C Plug Conn.
Straddle Riveting Type



Electrical

Voltage : 20V AC
Current : 5A (MAX.)
Contact Resistance : 40mΩ max. (initial)
Dielectric Withstanding Voltage : 100V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -30°C ~ + 80°C
Mating cycles : 10000

55919 Series

USB 2.0 Type-C Rcpt. Conn.
SMT R/A Mid-mount CH=0.90mm
Insert depth 4.85mm Type



Electrical

Voltage : 20V AC
Current : 5A (MAX.)
Contact Resistance : 40mΩ max. (initial)
Dielectric Withstanding Voltage : 100V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -30°C ~ + 80°C
Mating cycles : 10000

55911 Series

USB 2.0 Type-C Plug Conn.
Straddle Riveting Type



Electrical

Voltage : 20V AC
Current : 3.0A For VBUS & GND Pin
0.25A For the other Pin
Contact Resistance : 40mΩ max. (initial)
Dielectric Withstanding Voltage : 100V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -40°C ~ + 85°C
Mating cycles : 10000

55920 Series

USB Type-C Plug Conn.
Riveting Power Type



Electrical

Voltage : 20V AC
Current : 5A (MAX.)
Contact Resistance : 40mΩ max. (initial)
Dielectric Withstanding Voltage : 100V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -30°C ~ + 80°C
Mating cycles : 10000

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『 USB 3.0 Connector 』

50928 Series

2.00/2.50mm Pitch USB3.0 Type A
Rcpt.Conn.
T/H R/A CH=0.36mm Rev.Sink Type



Electrical

Voltage : 30V AC
Current : 1.8A
Contact Resistance : 50m Ω max.
Dielectric Withstanding Voltage : 100V AC/rms
Insulation Resistance : 100 M Ω min.
Operating Temp. : -55 $^{\circ}$ C ~ + 85 $^{\circ}$ C

53065 Series

2.00/2.50mm Pitch USB3.0 Type A
Rcpt.Conn.
T/H R/A CH=0.0MM Rev. Sink Type



Electrical

Voltage : 30V AC
Current : 1.8A
Contact Resistance : 50m Ω max.
Dielectric Withstanding Voltage : 100V AC/rms
Insulation Resistance : 100 M Ω min.
Operating Temp. : -55 $^{\circ}$ C ~ + 85 $^{\circ}$ C

53051 Series

2.00/2.50mm Pitch USB3.0 Type A
Rcpt.Conn.
T/H R/A CH=1.0mm Rev.Sink Type



Electrical

Voltage : 30V AC
Current : 1.8A
Contact Resistance : 50m Ω max.
Dielectric Withstanding Voltage : 100V AC/rms
Insulation Resistance : 100 M Ω min.
Operating Temp. : -55 $^{\circ}$ C ~ + 85 $^{\circ}$ C

53060 Series

2.00/2.50mm Pitch USB3.0 Type A
Rcpt.Conn.
T/H R/A CH=4.06mm Rev.Type



Electrical

Voltage : 30V AC
Current : 1.8A
Contact Resistance : 50m Ω max.
Dielectric Withstanding Voltage : 100V AC/rms
Insulation Resistance : 100 M Ω min.
Operating Temp. : -55 $^{\circ}$ C ~ + 85 $^{\circ}$ C

53926 Series

2.00/2.50mm Pitch USB3.0 Type A
Rcpt.Conn.
T/H R/A CH=1.60mm Normal Type



Electrical

Voltage : 30V AC
Current : 1.8A
Contact Resistance : 50m Ω max.
Dielectric Withstanding Voltage : 100V AC/rms
Insulation Resistance : 100 M Ω min.
Operating Temp. : -55 $^{\circ}$ C ~ + 85 $^{\circ}$ C

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『 USB 2.0 Connector 』

53081 Series

2.00/2.50mm Pitch USB2.0 Type A
Rcpt.Conn.
T/H R/A CH=4.00mm Normal Type



Electrical

Voltage : 30V AC (Per Pin)
Current : 1.8A (Per Pin)
Contact Resistance : 30m Ω max.
Dielectric Withstanding Voltage : 100V AC/rms
Insulation Resistance : 100 M Ω min.
Operating Temp. : -55 $^{\circ}$ C ~ + 85 $^{\circ}$ C

53086 Series

2.00/2.50mm Pitch USB2.0 Type A
Rcpt.Conn.
T/H R/A CH=-1.75mm REV.SINK Type



Electrical

Voltage : 30V AC (Per Pin)
Current : 1.8A (Per Pin)
Contact Resistance : 30m Ω max.
Dielectric Withstanding Voltage : 100V AC/rms
Insulation Resistance : 100 M Ω min.
Operating Temp. : -55 $^{\circ}$ C ~ + 85 $^{\circ}$ C

53094 Series

2.00/2.50mm Pitch USB2.0 Type A
Rcpt.Conn.
T/H R/A CH=1.4mm Normal Type



Electrical

Voltage : 30V AC (Per Pin)
Current : 1.8A (Per Pin)
Contact Resistance : 30m Ω (Max) initial for VBUS and GND
contacts / 50 m Ω (Max) initial for all
other contacts
Dielectric Withstanding Voltage : 100V AC/rms
Insulation Resistance : 100 M Ω min.
Operating Temp. : -55 $^{\circ}$ C ~ + 85 $^{\circ}$ C

59480 Series

0.65mm Pitch USB 2.0 Micro B
Rcpt. Conn.
SMT R/A CH=1.25mm Standard Type



Electrical

Voltage : 30V AC (Per Pin)
Current : 1.85A (Per Pin)
Contact Resistance : 30m Ω (Max) initial for VBUS and
GND contacts / 50 m Ω (Max) initial
for all other contacts other contacts
Dielectric Withstanding Voltage : 100V AC/rms
Insulation Resistance : 100 M Ω min.
Operating Temp. : -55 $^{\circ}$ C ~ + 85 $^{\circ}$ C

59481 Series

0.65mm Pitch USB 2.0 Micro B
Rcpt. Conn.
SMT R/A CH=1.25mm Standard Type



Electrical

Voltage : 30V AC (Per Pin)
Current : 1.85A (Per Pin)
Contact Resistance : 30 m Ω (Max) initial for VBUS and GND
contacts / 50 m Ω (Max) initial for all
other contacts
Dielectric Withstanding Voltage : 100V AC/rms
Insulation Resistance : 100 M Ω min.
Operating Temp. : -55 $^{\circ}$ C ~ + 80 $^{\circ}$ C

59486 Series

0.65mm Pitch USB 2.0 Micro B
Rcpt. Conn.
SMT R/A CH=0.28mm Sink Type



Electrical

Voltage : 30V AC (Per Pin)
Current : 1.8A (Per Pin)
Contact Resistance : 30 m Ω (Max) initial for VBUS and
GND contacts / 50 m Ω (Max) initial
for all other contacts
Dielectric Withstanding Voltage : 100V AC/rms
Insulation Resistance : 100 M Ω min.
Operating Temp. : -55 $^{\circ}$ C ~ + 80 $^{\circ}$ C

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Mag Fit Conn.




Product Profile

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『 Mag Fit Connector 』

Photos	Product Family	Product Family Description
	<p>Mag-fit</p>	<p>Magnetics connection which is easier to position, without additional guide pins. The protection cover prevents the pins be damaged.</p> <p>Customized design is flexible to meet low profile or any other requirements. Molding design makes the unit price lower than pogo pin.</p>



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『Mag Fit Connector』

Mating Height

TYPE	P / N	Pitch (mm)	PCB Mounting	Operation Direction	Product Height (mm)	Note ★ High Speed ◎ Key P/N
Mag-Fit	57902	3.00	T/H	R/A	3.30	◎
Mag-Fit	57903	1.27	SMT	S/T	7.47	◎
Mag-Fit	57904	1.27	SMT	S/T	4.30	◎

★ High Speed (SATA gen3、USB3.0、Type C)
◎ Key P/N

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『 Mag Fit Connector 』

57902 Series

3.0mm Pitch Mag-Fit Conn.
T/H R/A H=3.3mm Type



Electrical

Voltage : 20V DC (Per Pin)
Current : 1A (Per Pin)
Contact Resistance : 100m Ω max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ + 85 $^{\circ}$ C

57903 Series

1.27mm Pitch Mag-Fit Conn. Pad side



Electrical

Voltage : 20V DC (Per Pin)
Current :
For power (#1, #2, #11 and #12): 2.5 Amperes (per pin)
For signal (#3~#10): 150mA (per pin).
Contact Resistance : 100m Ω max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 M Ω min.
Operating Temp. : -20 $^{\circ}$ C ~ + 95 $^{\circ}$ C

Reference Information

Mated P/N : 57904

57904 Series

1.27mm Pitch Mag-Fit Conn.
Spring side



Electrical

Voltage : 20V AC (Per Pin)
Current :
For power (#1, #2, #11 and #12): 2.5 Amperes (per pin)
For signal (#3~#10): 150mA (per pin).
Contact Resistance : 100m Ω max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 M Ω min.
Operating Temp. : -20 $^{\circ}$ C ~ +95 $^{\circ}$ C

Reference Information

Mated P/N : 57903

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ACES
Power Conn.

Product Profile

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『 Power Connector 』

Photos	Product Family	Product Family Description
	<p>Power Conn</p>	<p>Features & Benefits High-current and compact compatible connectors used in the connection of power circuits. Made with LCP and High Performance Copper Alloy. High-reliability contact design. High-pluggable. Customizations available.</p> <p>Application Server/storage/power supply/switches/routers/UPS</p>

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『Power Connector』

TYPE	P / N	Pitch (mm)	PCB Mounting	Operation Direction	Current / Power pin (A)	Pin Congigurations	Receptacle/ Header	Note ★ High Speed ◎ Key P/N
Power access	52900	6.35/2.54	Post / T/H	R/A	35	10P + 80S + 10P	Receptacle	
Power access	52901	6.35/2.54	Post / T/H	R/A	35	10P + 80S + 10P	Header	
Power access	52900	6.35/2.54	Post / T/H	R/A	35	2P +24S + 2P	Receptacle	
Power access	52901	6.35/2.54	Screw / T/H	R/A	35	2P +24S + 2P	Header	
Power access	52900	6.35/2.54	Board Lock / T/H	R/A	35	4P +16S +4P	Receptacle	
Power access	52901	6.35/2.54	Board Lock / T/H	R/A	35	4P +16S +4P	Header	
Power access	52901	6.35/2.54	Screw / T/H	R/A	35	2P +16S +2P	Header	
Power access	52900	6.35/2.54	Board Lock / T/H	R/A	35	16S+7P	Receptacle	◎
Power access	52901	6.35/2.54	Board Lock / T/H	R/A	35	7P+16S	Header	◎
Advanced Power card edge	52910	2.5/1.27	Post / T/H	R/A	35	24S + 4P	Receptacle	
Advanced Power card edge	52910	2.5/1.27	T/H	R/A	35	24S + 4P	Receptacle	◎
Power card edge	52931	2.54	Post / T/H	R/A	7	64P	Receptacle	◎
Power card edge	52931	2.54	Board Lock/ T/H	R/A	7	64P	Receptacle	
Power card edge	52932	2.54	Board Lock/ T/H	R/A	9	50P	Receptacle	◎
SAS+ Power card edge conn.	52950	2.5/0.75	SMT/T/H	S/T	40	2P+64S	Receptacle	
SAS+ Power card edge conn.	52951	2.5/0.75	SMT/T/H	S/T	40	2P+64S	Receptacle	★ ◎

★ High Speed (SAS3.0、SATA gen3、USB3.0、Type C)
◎ Key P/N

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『 Power Connector 』

52900-001672P-111 Series

2.54/6.35mm Pitch Power Access
Female Conn.
T/H R/A 16S+7P Type



Electrical

Voltage : 600V AC (Per Pin)
Current : 35A (Per Power Pin)
Contact Resistance : 1mΩ max.
Dielectric Withstanding Voltage : 2500V AC/rms
Insulation Resistance : 5000 MΩ min.
Operating Temp. : -40°C ~ +125°C

Reference Information

Mated P/N : 52901-701602P-111

52900-202422P-110 Series

2.54/6.35mm Pitch Power Access
Female Conn.
T/H R/A 2P+24S+2P Type



Electrical

Voltage : 600V AC (Per Pin)
Current : 35A (Per Power Pin)
Contact Resistance : 1mΩ max.
Dielectric Withstanding Voltage : 2500V AC/rms
Insulation Resistance : 5000 MΩ min.
Operating Temp. : -40°C ~ +125°C

Reference Information

Mated P/N : 52901-202422P-131

52900-401642P-111 Series

2.54/6.35mm Pitch Power Access
Female Conn.
T/H R/A 4P+16S+4P Type



Electrical

Voltage : 600V AC (Per Pin)
Current : 35A (Per Power Pin)
Contact Resistance : 1mΩ max.
Dielectric Withstanding Voltage : 2500V AC/rms
Insulation Resistance : 5000 MΩ min.
Operating Temp. : -40°C ~ +125°C

Reference Information

Mated P/N : 52901-401642P-110

52901-201622P-130 Series

2.54/6.35mm Pitch Power Access
Male Conn.
T/H R/A 2P+16S+2P Type



Electrical

Voltage : 600V AC (Per Pin)
Current : 35A (Per Power Pin)
Contact Resistance : 1mΩ max.
Dielectric Withstanding Voltage : 2500V AC/rms
Insulation Resistance : 5000 MΩ min.
Operating Temp. : -40°C ~ +125°C

Reference Information

Mated P/N : 52900-201622P-XXX

52901-401642P-110 Series

2.54/6.35mm Pitch Power Access
Male Conn.
T/H R/A 4P+16S+4P Type



Electrical

Voltage : 600V AC (Per Pin)
Current : 35A (Per Power Pin)
Contact Resistance : 1mΩ max.
Dielectric Withstanding Voltage : 2500V AC/rms
Insulation Resistance : 5000 MΩ min.
Operating Temp. : -40°C ~ +125°C

Reference Information

Mated P/N : 52900-401642P-111

52901-701602P-111 Series

2.54/6.35mm Pitch Power Access
Male Conn.
T/H R/A 7P+16S Type



Electrical

Voltage : 600V AC (Per Pin)
Current : 35A (Per Power Pin)
Contact Resistance : 1mΩ max.
Dielectric Withstanding Voltage : 2500V AC/rms
Insulation Resistance : 5000 MΩ min.
Operating Temp. : -40°C ~ +125°C

Reference Information

Mated P/N : 52900-001672P-111

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『 Power Connector 』

52910-002442P-104 Series

1.27mm Pitch Power Card Edge Conn.
T/H R/A 24S+4P Type



Electrical

Voltage : 250V AC (Per Pin)
Current : 35A (Per Power Pin)
Contact Resistance : 40m Ω max.
Dielectric Withstanding Voltage : 1500V AC/rms
Insulation Resistance : 5000 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ + 125 $^{\circ}$ C

52931-0642K-111 Series

2.54mm Pitch Power Card Edge Conn.
T/H R/A 64 Pin Type



Electrical

Voltage : 48V AC (Per Pin)
Current : 7A (Per Pin)
Contact Resistance : 25m Ω max.
Dielectric Withstanding Voltage : 1000V AC/rms
Insulation Resistance : 5000 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ + 125 $^{\circ}$ C

52932-0502K-101 Series

2.54mm Pitch Power Card Edge Conn.
T/H R/A 50Pin Type



Electrical

Voltage : 48V AC (Per Pin)
Current : 9A (Per Pin)
Contact Resistance : 25m Ω max.
Dielectric Withstanding Voltage : 1500V AC/rms
Insulation Resistance : 5000 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ + 125 $^{\circ}$ C

52951-206401K-310 Series

0.75mm Pitch Power Card
Edge 12G Conn.
Hybrid 2P+64S Type



Electrical

Voltage : 250V AC (Per Pin)
Current : 40A (Per Power pin)
Contact Resistance : 40m Ω max.
Dielectric Withstanding Voltage : 1500V AC/rms
Insulation Resistance : 5000 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ +125 $^{\circ}$ C

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HDMI Conn.

Product Profile

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『 HDMI Connector 』

Photos	Product Family	Product Family Description
	0.5mm(HDMI A Type)	<p>HDMI(High-Definition Multimedia Interface) connector is a digital interface for audio and video that provides a single-cable solution for home theater and consumer electronics equipment such as TVs, Blu-ray/DVD players and set-top boxes. One HDMI cable took the place of nine different analog audio and video cables. HDMI is the desired connector on the rear panel of Audio/Video gear. The applications for HDMI A Type: TV/DVD/DVR PC/NB.</p>
	0.4mm(HDMI D Type)	<p>Micro-HDMI (HDMI type D) is a miniaturized version of the High Definition Multimedia Interface specification that provides a single-cable solution for home theater and consumer electronics equipment such as smartphones/tablets and other mobile devices. One HDMI cable took the place of nine different analog audio and video cables. HDMI is the desired connector on therear panel of Audio/Video gear. The applications for HDMI D Type: Compact portable equipment, such as cell phones or any small device.</p>

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『HDMI Connector』

Family Type	P / N	Pitch (mm)	PCB Mounting	Operation Direction	Center Height (mm)	Product Type	Note ★ High Speed ◎ Key P/N
A type	59032	1	T/H	R/A	-0.62	Reverse Sink	
A type	59053	1	T/H	R/A	-0.55	Reverse Sink	
A type	59059	1	T/H	R/A	-0.5	Reverse Sink	
A type	59065	1	T/H	R/A	-2.37	Reverse Sink	◎
A type	59085	1	T/H	R/A	-0.47	Reverse Sink	
A type	59089	1	T/H	R/A	-0.22	Reverse Sink	
A type	59072	1	T/H	R/A	0	Normal Sink	
A type	59051	1	T/H	R/A	3.57	Reverse	
A type	59062	1	T/H	R/A	3.85	Reverse	
A type	59079	1	T/H	R/A	2.53	Reverse	
A type	59546	1	T/H	S/T	NA	NA	
D type	59557	0.4	SMT + DIP	R/A	1.95	Normal	◎
D type	59558	0.4	SMT + DIP	R/A	0.9	Normal Sink	◎
D type	59559	0.4	SMT + DIP	R/A	1.07	Normal Sink	◎

★ High Speed (SATA gen3 - USB3.0 - Type C)
◎ Key P/N

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『 HDMI Connector 』

59065 Series

1.0mm Pitch HDMI Conn.
T/H D/R R/A Reverse Sink
CH=2.37mm Type



Electrical

Voltage : 40V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 10 m Ω Max. initial
30 m Ω Max. after test.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 10 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

59557 Series

0.4mm Pitch Micro HDMI Rcpt. Conn
SMT T/H D/R R/A Normal
CH=1.95mm Type



Electrical

Voltage : 40V AC (Per Pin)
Current : 0.3A (Per Pin)
Contact Resistance : 10m Ω max.
Dielectric Withstanding Voltage :
Unmated Connectors : 250V AC/rms
Mated Connectors : 150V AC/rms
Insulation Resistance :
Unmated Connectors : 100 M Ω min.
Mated Connectors : 10 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

59558 Series

0.4mm Pitch Micro HDMI Rcpt. Conn.
SMT T/H D/R R/A Normal Sink
CH=0.9mm Type



Electrical

Voltage : 40V AC (Per Pin)
Current : 0.3A (Per Pin)
Contact Resistance : 10m Ω max.
Dielectric Withstanding Voltage :
Unmated Connectors : 250V AC/rms
Mated Connectors : 150V AC/rms
Insulation Resistance :
Unmated Connectors : 100 M Ω min.
Mated Connectors : 10 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

59559 Series

0.4mm Pitch Micro HDMI Rcpt. Conn
SMT T/H D/R R/A Normal Sink
CH=1.07mm Type



Electrical

Voltage : 40V AC (Per Pin)
Current : 0.3A (Per Pin)
Contact Resistance : 10m Ω max.
Dielectric Withstanding Voltage :
Unmated Connectors : 250V AC/rms
Mated Connectors : 150V AC/rms
Insulation Resistance :
Unmated Connectors : 100 M Ω min.
Mated Connectors : 10 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C



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Product Profile




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ACES

DC Jack Conn.



『 DC Jack Connector 』

Photos	Product Family	Product Family Description	
	With cable type	3Φ DC Power Jack.	
	Sink type	4Φ DC Power Jack.	<p>DC jack is a component used in many portable consumer electronic devices that allows a steady power source to be plugged in.</p> <p>ACES DC Jack, application for Notebook/ Portable device and for mounting on PC boards with a variety of center height options.</p>
	Bevel type	4Φ DC Power Jack with bevel type.	



『DC Jack Connector』

Product Family	P / N	PCB Mount	Operation Direction	Product Height (mm)	Center Height (mm)	Above Height (mm)	Current Rating (A)	Rated Voltage (V)	φ 徑 (mm)	Note ★ High Speed ◎ Key P/N
With cable type	58900	For cable type	R/A	3.95	1.98	NA	5A	20V	3φ	◎
Sink type	58901	T/H	R/A	5.8	1.50	4.40	5A	20V	4φ	◎
Sink type	58904	T/H	R/A	5.8	-2.90	1.40	5A	20V	4φ	◎
Sink type	58908	T/H	R/A	5.8	1.63	4.53	5A	20V	4φ	◎
Sink type	58910	T/H	R/A	7.2	-1.70	2.60	5A	20V	4φ	◎
Sink type	58913	T/H	R/A	5.8	0.90	3.80	5A	20V	4φ	◎
Sink type	58915	T/H	R/A	5.8	0.80	3.70	5A	20V	4φ	◎
Sink type	58916	T/H	R/A	5.8	-1.00	1.90	5A	20V	4φ	◎
Sink type	58919	T/H	R/A	5.8	0.00	2.90	5A	20V	4φ	◎
Sink type	58922	T/H	R/A	7.2	-2.65	1.65	5A	20V	4φ	◎
Bevel type	58917	T/H	R/A	5.8	1.40	4.30	5A	20V	4φ	◎
Bevel type	58918	T/H	R/A	5.5	0.25	3.00	5A	20V	4φ	◎

★ High Speed (SATA gen3 - USB3.0 - Type C)
◎ Key P/N

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『 DC Jack Connector 』

58900 Series

3Ø DC Power Jack Conn.
R/A CH=1.98mm Type.



Electrical

Voltage : 20V DC (Per Pin)
Current : 5A (Per Pin)
Contact Resistance : 30mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -40°C ~ +85°C

58901 Series

4Ø DC Power Jack Conn.
T/H R/A CH=1.5mm Type.



Electrical

Voltage : 20V DC (Per Pin)
Current : 5A (Per Pin)
Contact Resistance : 15mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -40°C ~ +85°C

58904 Series

4Ø DC Power Jack Conn.
T/H R/A CH:-2.9mm Type.



Electrical

Voltage : 20V DC (Per Pin)
Current : 5A (Per Pin)
Contact Resistance : 15mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -40°C ~ +85°C

58908 Series

4Ø DC Power Jack Conn.
T/H R/A CH=1.63mm Type.



Electrical

Voltage : 20V DC (Per Pin)
Current : 5A (Per Pin)
Contact Resistance : 15mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -40°C ~ +85°C

58910 Series

4Ø DC Power Jack Conn.
T/H R/A CH=-1.7mm Type.



Electrical

Voltage : 20V DC (Per Pin)
Current : 5A (Per Pin)
Contact Resistance : 15mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -40°C ~ +85°C

58913 Series

4Ø DC Power Jack Conn.
T/H R/A CH=0.9mm Type.



Electrical

Voltage : 20V DC (Per Pin)
Current : 5A (Per Pin)
Contact Resistance : 15mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -40°C ~ +85°C

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『 DC Jack Connector 』

58915 Series

4Ø DC Power Jack Conn.
T/H R/A CH=0.8mm Type.



Electrical

Voltage : 20V DC (Per Pin)
Current : 5A (Per Pin)
Contact Resistance : 15mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -40°C ~ +85°C

58916 Series

4Ø DC Power Jack Conn.
T/H R/A CH=-1mm Type.



Electrical

Voltage : 20V DC (Per Pin)
Current : 5A (Per Pin)
Contact Resistance : 15mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -40°C ~ +85°C

58919 Series

4Ø DC Power Jack Conn.
T/H R/A CH= 0 mm Type



Electrical

Voltage : 20V DC (Per Pin)
Current : 5A (Per Pin)
Contact Resistance : 15mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -40°C ~ +85°C

58922 Series

4Ø DC Power Jack Conn.
T/H R/A CH= -2.65 mm Type



Electrical

Voltage : 20V DC (Per Pin)
Current : 5A (Per Pin)
Contact Resistance : 15mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -40°C ~ +85°C

58917 Series

4Ø DC Power Jack Conn.
T/H R/A CH=1.4mm Type.



Electrical

Voltage : 20V DC (Per Pin)
Current : 5A (Per Pin)
Contact Resistance : 15mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -40°C ~ +85°C

58918 Series

4Ø DC Power Jack Conn.
T/H R/A CH=0.25mm Type.



Electrical

Voltage : 20V DC (Per Pin)
Current : 5A (Per Pin)
Contact Resistance : 15mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -40°C ~ +85°C

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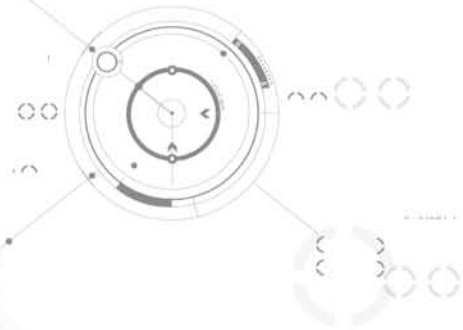
... offers extensive design, engineering and manufacturing to serve variant products in
... that include computer, computer peripherals, business equipment, home
... and telecommunications.



SAS Conn. / SATA Conn.




Product Profile

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『 SAS Connector / SATA Connector 』

Photos	Product Family	Product Family Description
	SAS	<p>Features & Benefits Made with high-temperature thermoplastic and high performance copper alloy. Design for blind-mating and hot-plugging of HDDs. Fitting nail design for additional mechanical strength after soldering. SAS receptacles also accept SATA drives. Meet ROHS and lead-free</p> <p>Application Server/Storage/HDDs /Mezzanine cards /Embedded system boards</p>
	ODD SATA	<p>Features & Benefits</p> <ul style="list-style-type: none"> - combined signal and power interface - Increased disk drive data rates - Smaller, easier-to-route cables - improved in bandwidth performance and data transmission reliability
	HDD SATA	<p>Application</p> <ul style="list-style-type: none"> - Hard Disk Drives / Desktop / Consumer electronic products



『 SAS Connector 』

Type	P / N	Pitch (mm)	PCB Mounting	Operation Direction	BTB (Mated) Height	Circuits	Note ★ High Speed ◎ Key P/N
SAS	50910	1.27 / 0.8	Press Fit	S/T	8.15	29	
SAS	50911	1.27 / 0.8	T/H	S/T	8.15	29	◎
SAS	50912	1.27 / 0.8	SMT	S/T	8.15	29	◎
SAS	50913	1.27 / 0.8	T/H	S/T	14.15	29	◎
SAS	51890	1.27 / 0.8	Hybrid	S/T	8.15	29	★ ◎
SAS	51891	1.27 / 0.8	SMT	S/T	11.65	29	★ ◎
SAS	51892	1.27 / 0.8	SMT	S/T	11.65	29	★ ◎

『 SATA Connector 』

Type	P / N	Pitch (mm)	PCB Mounting	Operation Direction	Center Height / mm	Circuits	Note ★ High Speed ◎ Key P/N
ODD SATA	50886	1.27	T/H	R/A	7.21	7	◎
ODD SATA	50870	1.0/1.27	SMT	R/A	1.05	13	◎
ODD SATA	50879	1.0/1.27	SMT	R/A	2.00	13	◎
ODD SATA	50885	1.0/1.27	T/H	R/A	2.40	13	◎
ODD SATA	50861	1.0/1.27	SMT	R/A	3.35	13	
ODD SATA	50863	1.0/1.27	SMT	R/A	4.00	13	
ODD SATA	51876	1.0/1.27	SMT	R/A	3.30	13	◎

HDD SATA	50802	1.27	SMT	R/A	0.60	22	◎
HDD SATA	50813	1.27	SMT	R/A	0.60	22	◎
HDD SATA	50887	1.27	SMT	R/A	1.00	22	
HDD SATA	50801	1.27	SMT	R/A	1.40	22	◎
HDD SATA	50888	1.27	SMT	R/A	1.90	22	
HDD SATA	50824	1.27	T/H	R/A	2.10	22	◎
HDD SATA	50823	1.27	T/H	R/A	2.50	22	
HDD SATA	50814	1.27	T/H	R/A	3.69	22	◎
HDD SATA	50822	1.27	T/H	R/A	4.10	22	
HDD SATA	50825	1.27	T/H	R/A	4.50	22	◎
HDD SATA	50812	1.27	SMT	R/A	5.55	22	◎

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★ High Speed (SATA gen3 - USB3.0 - Type C)
◎ Key P/N



『 SAS Connector 』

50911 Series

1.27/0.8mm Pitch SAS 3G Rcpt. Conn.
Hybrid D/R S/T Standard Type



Electrical

Voltage : 30V DC (Per Pin)
Current : 1.5A (Per Pin)
Contact Resistance : 30m Ω max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

50912 Series

1.27/0.8mm Pitch SAS 3G Rcpt. Conn.
SMT D/R S/T Standard Type



Electrical

Voltage : 30V DC (Per Pin)
Current : 1.5A (Per Pin)
Contact Resistance : 30m Ω max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

50913 Series

1.27/0.8mm Pitch SAS 3G Rcpt. Conn.
T/H D/R S/T Standard Type



Electrical

Voltage : 30V DC (Per Pin)
Current : 1.5A (Per Pin)
Contact Resistance : 30m Ω max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

51890 Series

1.27/0.8mm Pitch SAS 6G Rcpt. Conn.
Hybrid D/R S/T Standard Type



Electrical

Voltage : 30V DC (Per Pin)
Current : 1.5A (Per Pin)
Contact Resistance : 30m Ω max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

51891 Series

1.27/0.8mm Pitch SAS 12G Rcpt. Conn.
SMT D/R S/T Standard Type



Electrical

Voltage : 30V DC (Per Pin)
Current : 1.5A (Per Pin)
Contact Resistance : 30m Ω max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 M Ω min.
Operating Temp. : 0 $^{\circ}$ C ~ +85 $^{\circ}$ C

51892 Series

1.27/0.8mm Pitch SAS 12G Rcpt. Conn.
SMT D/R S/T Standard Type



Electrical

Voltage : 30V DC (Per Pin)
Current : 1.5A (Per Pin)
Contact Resistance : 30m Ω max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 M Ω min.
Operating Temp. : 0 $^{\circ}$ C ~ +85 $^{\circ}$ C

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『 SATA Connector 』

50886 Series

1.27mm Pitch HDD SATA Conn.
T/H R/A T/C CH=7.21mm Type



Electrical

Voltage : 15V AC (Per Pin)
Current : 1.5A (Per Pin)
Contact Resistance : 30mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 MΩ min.
Operating Temp. : -55°C ~ +85°C

50870 Series

1.27/1.00mm Pitch ODD SATA Conn.
SMT R/A T/C CH=1.05mm Type



Electrical

Voltage : 15V AC (Per Pin)
Current : 1.5A DC (Per Pin)
Contact Resistance : 30mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 MΩ min.
Operating Temp. : -35°C ~ +85°C

50879 Series

1.27/1.0mm Pitch ODD SATA Conn.
SMT R/A T/C CH=2.0 Type



Electrical

Voltage : 15V AC (Per Pin)
Current : 1.5A DC (Per Pin)
Contact Resistance : 30mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 MΩ min.
Operating Temp. : -35°C ~ +85°C

50885 Series

1.27/1.0mm Pitch ODD SATA Conn.
T/H R/A T/C CH=2.4mm Type



Electrical

Voltage : 15V AC (Per Pin)
Current : 1.5A DC (Per Pin)
Contact Resistance : 30mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 MΩ min.
Operating Temp. : -35°C ~ +85°C

51876 Series

1.27/1.0mm Pitch ODD SATA Rcpt. Conn.
SMT R/A T/C H=3.30mm Type



Electrical

Voltage : 15V AC (Per Pin)
Current : 1.5A DC (Per Pin)
Contact Resistance : 30mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 MΩ min.
Operating Temp. : -35°C ~ +85°C

50802 Series

1.27mm Pitch HDD SATA Rcpt. Conn.
SMT R/A T/C CH=0.6mm Type



Electrical

Voltage : 15V AC (Per Pin)
Current : 1.5A DC (Per Pin)
Contact Resistance : 30mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 MΩ min.
Operating Temp. : -35°C ~ +85°C

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『 SATA Connector 』

50813 Series

1.27mm HDD SATA Rcpt. Conn.
SMT R/A T/C CH=0.6mm Type



Electrical

Voltage : 15V AC (Per Pin)
Current : 1.5A (Per Pin)
Contact Resistance : 30m Ω max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 M Ω min.
Operating Temp. : -35 $^{\circ}$ C ~ +85 $^{\circ}$ C

50801 Series

1.27mm Pitch HDD SATA Conn.
SMT R/A T/C CH=1.4mm Type



Electrical

Voltage : 15V AC (Per Pin)
Current : 1.5A DC (Per Pin)
Contact Resistance : 30m Ω max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 M Ω min.
Operating Temp. : -35 $^{\circ}$ C ~ +85 $^{\circ}$ C

50824 Series

1.27mm Pitch HDD SATA Conn.
T/H R/A T/C CH=2.1mmType



Electrical

Voltage : 15V AC (Per Pin)
Current : 1.5A DC (Per Pin)
Contact Resistance : 30m Ω max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 M Ω min.
Operating Temp. : -35 $^{\circ}$ C ~ +85 $^{\circ}$ C

50814 Series

1.27mm Pitch HDD SATA Conn.
T/H R/A T/C CH=3.69mm Type



Electrical

Voltage : 15V AC (Per Pin)
Current : 1.5A DC (Per Pin)
Contact Resistance : 30m Ω max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 M Ω min.
Operating Temp. : -35 $^{\circ}$ C ~ +85 $^{\circ}$ C

50825 Series

1.27mm Pitch HDD SATA Conn.
T/H R/A T/C CH=4.5mmType



Electrical

Voltage : 15V AC (Per Pin)
Current : 1.5A DC (Per Pin)
Contact Resistance : 30m Ω max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 M Ω min.
Operating Temp. : -35 $^{\circ}$ C ~ +85 $^{\circ}$ C

50812 Series

1.27mm Pitch HDD SATA Conn.
SMT R/A T/C CH=5.55mm Type



Electrical

Voltage : 15V AC (Per Pin)
Current : 1.5A DC (Per Pin)
Contact Resistance : 30m Ω max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 M Ω min.
Operating Temp. : -35 $^{\circ}$ C ~ +85 $^{\circ}$ C

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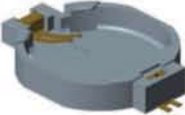


Product Profile

ACES offers extensive design, engineering and manufacturing to serve variant products in industries that include computer, computer peripherals, business equipment, home entertainment and telecommunications.



『 Battery Connector 』

Photos	Product Family	Product Family Description
	Blade Type	<p>Battery connector is the most typical component for connecting a removable battery found in most of portable devices. Aces provides the most reliable battery connector with not only securing the connection in contact area, connector pitch size included 1.4/ 2.0 / 2.25 /2.5 /3.5 /5.0 mm, the ampere from 1.0 to 10 but also fulfilling all the customized requirements including the required various mating height for space saving. ACES have many molds and different type of battery connector that could match what customer need.</p>
	Spring Type	<p>The spring type battery is also widely used. Aces could provide right angle type and straight type to match what you need, we already have different pins with different pitch and many moulds that could revise it or build the new moulds for you.</p>
	Holder Type	<p>A battery holder is one or more compartments or chambers for holding a battery. For dry cells, the holder must also make electrical contact with the battery terminals. A battery holder is either a plastic case with the shape of the housing molded as a compartment that accepts a battery. So far Aces provides the battery holder for CR2032 and CR1225, it has a low-profile dip-style design for densely packed boards. The battery can easily be pushed into the holder from the top. if you need the other types, we also could develop for you.</p>

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『 Battery Connector 』

Family Type	Type	P / N	Pitch (mm)	PCB Mounting	Operation Direction	The Height from PCB	Rated Current (A)	Note ★ High Speed ◎ Key P/N
Blade battery	Male	50989	2.00	T/H	R/A Sink	1.70	5	
	Female	50967	2.00	SMT	R/A	4.40	5	
Blade battery	Male	50978	2.00	SMT	R/A	4.00	2P=4.5 6P=0.5	◎
	Female	50979	2.00	T/H	R/A	5.00	2P=4.5 6P=0.5	◎
Blade battery	Male	51985	2.00	T/H	R/A	10.70	5	
	Female	51986	2.00	T/H	S/T	9.35	5	
Blade battery	Male	53006	2.00	T/H	R/A	3.75	5	
	Female	53005	2.00	SMT	R/A	2.20	5	
	Female	53048	2.00	SMT	R/A	2.20	7	
Blade battery	Male	50988	2.00	T/H	R/A Sink	3.80	6	
	Male	51971	2.00	T/H	R/A	6.50	5	
	Female	51972	2.00	SMT	R/A	6.50	5	
Blade battery	Male	53022	2.50	T/H	R/A	5.70	5	◎
	Female	53029	2.50	T/H	S/T	5.20	7	◎
Blade battery	Male	53035	2.50	T/H	R/A	10.70	5	◎
	Female	53036	2.50	T/H	S/T	6.70	7	◎
Blade battery	Male	51998	2.50	T/H	R/A	6.10	6	◎
	Female	51973	2.50	T/H	S/T	7.25	2P=10 6P=6	
Blade battery	Male	54966	2.00	T/H	R/A	3.30	5	◎
	Male	53039	2.00	T/H	R/A Sink	4.30	5	◎
	Male	51970	2.00 2.25	T/H	R/A	8.20	10	
Spring type	Spring type	50981	2.50	SMT	R/A	7.85	1.5	◎
	Spring type	50982	5.00	SMT	R/A	14.5	1.5	◎
Battery Holder	Battery Holder	53011	-	SMT	-	4.20	3	◎

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★ High Speed (SATA gen3 - USB3.0 - Type C)
◎ Key P/N



『 Battery Connector 』

50978 Series

2.0mm Pitch Battery Male Conn.
SMT R/A H=4.0mm Type



Electrical

Voltage : 30V DC (Per Pin)
Current : DC 4.5Amperes(2pin) 、
DC 0.5Amperes(OTHER 6pin)
Contact Resistance : 20mΩ max.
Dielectric Withstanding Voltage : 650V AC Min
Insulation Resistance : 500 MΩ min.
Operating Temp. : -55℃ ~ +85℃

Reference Information

Mated P/N : 50979

50979 Series

2.0mm Pitch Battery Female Conn.
T/H R/A H=5.0mm Type



Electrical

Voltage : 30V VOLTS DC
Current : DC 4.5Amperes(2pin) 、
DC 0.5Amperes(OTHER 6pin)
Contact Resistance : 20mΩ max.
Dielectric Withstanding Voltage : 650V AC Min
Insulation Resistance : 500 MΩ min.
Operating Temp. : -55℃ ~ +85℃

Reference Information

Mated P/N : 50978

53022 Series

2.5mm Pitch Battery Male Conn.
T/H R/A H=5.7mm



Electrical

Voltage : 30V AC (Per Pin)
Current : 5.0A (Per Pin)
Contact Resistance : 20mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 1000 MΩ min.
Operating Temp. : -40℃ ~ +85℃

Reference Information

Mated P/N : 53029

53029 Series

2.5mm Pitch Battery Female Conn.
T/H S/T H=5.2mm Type



Electrical

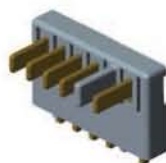
Voltage : 30V VOLTS DC
Current : DC 4.5Amperes(2pin) 、
DC 0.5Amperes(OTHER 6pin)
Contact Resistance : 20mΩ max.
Dielectric Withstanding Voltage : 650V AC Min
Insulation Resistance : 500 MΩ min.
Operating Temp. : -55℃ ~ +85℃

Reference Information

Mated P/N : 53022

53035 Series

2.5mm Pitch Battery Male Conn.
T/H R/A H=10.7mm Type



Electrical

Voltage : 30V AC(Per Pin)
Current : 5.0A (Per Pin)
Contact Resistance : 20mΩ max. (initial)per contact
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40℃ ~ +85℃

Reference Information

Mated P/N : 53036

53036 Series

2.5mm Pitch Battery Female Conn.
T/H S/T H=6.7mm Type



Electrical

Voltage : 30V AC(Per Pin)
Current : 7.0A (Per Pin)
Contact Resistance : 20mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40℃ ~ +85℃

Reference Information

Mated P/N : 53035

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『 Battery Connector 』

51998 Series

2.5mm Pitch Battery Male Conn.
T/H R/A H=6.1mm Type



Electrical

Voltage : 36V AC
Current : 5.0A
Contact Resistance : 20mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +85°C

Reference Information

Mated P/N : 51973

54966 Series

2.0mm Pitch Battery Male Conn.
T/H R/A H=3.3mm Type



Electrical

Voltage : 30V AC (Per Pin)
Current : 5A (Per Pin)
Contact Resistance : 40mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ + 85°C

53039 Series

2.0mm Pitch Battery Male Conn.
T/H R/A Sink H=4.3mm Type



Electrical

Voltage : 30V AC (Per Pin)
Current : 5.0A (Per Pin)
Contact Resistance : 40mΩ max.
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ + 85°C

50981 Series

2.5mm Pitch Battery Spring Conn.
SMT R/A H=7.85 mm Type



Electrical

Voltage : 30V AC (Per Pin)
Current : 1.5A (Per Pin)
Contact Resistance : 50mΩ max.
Dielectric Withstanding Voltage : 600V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ + 80°C

50982 Series

5.0mm Pitch Battery Spring Conn.
SMT R/A H=14.5mm Type

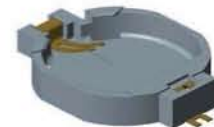


Electrical

Voltage : 50V AC (Per Pin)
Current : 1.5A (Per Pin)
Contact Resistance : 50mΩ max.
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +80°C

53011Series

Battery Holder Conn.
SMT H=4.2mm Type




Electrical

Voltage : 25V AC (Per Pin)
Current : 3.0A (Per Pin)
Contact Resistance : 50mΩ max.
Dielectric Withstanding Voltage : 1000V AC/rms
Insulation Resistance : 1000 MΩ min.
Operating Temp. : -40°C ~ +85°C
Button cell battery : CR2032

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RF Conn.

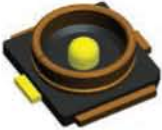




Product Profile

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『 RF Connector 』

Photos	Product Family	Product Family Description
	RF Coaxial Connector	<p>Features: RF coaxial connector includes mated plug and cable Designed for the use in application of 50Ω impedance requirements Reliable, higher performance support from 3-6GHz Flexible to support any length for widely requirements. Low profile, ideal for the space where space is limited.</p>
	RF Switch Connector	<p>Applications: Smartphone & Cell Phone / Notebook PC & Tablet PC / Flat panel display / Professional TV camera / Digital camera & Video camera / Security & Network camera / Multifunction printer / Printer / AV equipment / Medical equipment / Digital measurement instrument / Robot / Industrial / Projector / Handy terminal / Amusement / Car electronics</p>
	RF Cable	

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『RF Connector』

Type	P / N	PCB Mounting	Operation Direction	Product length (mm)	Product width (mm)	Product Height (mm)	φ 徑 (mm)	Note ★ High Speed ◎ Key P/N
RF coaxial conn.	50990	SMT	S/T	3.0	3.1	1.25	φ 2.0	◎
RF coaxial conn.	50993	SMT	S/T	3.0	3.1	0.63	φ 2.0	◎
RF coaxial conn.	50994	SMT	S/T	2.0	2.0	0.6	φ 1.5	◎
RF Switch type	50996	SMT	S/T	2.0	2.1	0.9	φ 1.35	◎

Type	P / N	Product length (mm)	Operation Direction	Mating P/N	φ 徑 (mm)	Note ★ High Speed ◎ Key P/N
RF Cable- I	56990-00001-001	40~100	Vertical	50990	φ 1.13	◎
RF Cable- I	56990-00002-001	40~100	Vertical	50990	φ 1.37	
RF Cable- IV	56994-00001-001	40~100	Vertical	50994	φ 0.81	◎
RF Cable- IV	56994-00002-001	40~100	Vertical	50994	φ 1.13	

★ High Speed (SATA gen3、USB3.0、Type C)
◎ Key P/N

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『 RF Connector 』

50990 Series

Micro RF Coaxial Conn.
SMT S/T H=1.25mm Type



Electrical

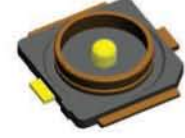
Voltage : 60V AC (Per Pin)
Impedance : 50 Ω (Per Pin)
Contact Resistance : 25m Ω max.
Dielectric Withstanding Voltage : 200V AC/rms
Insulation Resistance : 500 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

Reference Information

Mated P/N : 56990

50993 Series

Micro RF Coaxial Conn.
SMT S/T H=0.63mm Type

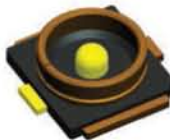


Electrical

Voltage : 60V AC (Per Pin)
Impedance : 50 Ω (Per Pin)
Contact Resistance : 25m Ω max.
Dielectric Withstanding Voltage : 200V AC/rms
Insulation Resistance : 500 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

50994 Series

Micro RF Coaxial Conn.
SMT S/T H=0.6mm Type



Electrical

Voltage : 60V AC (Per Pin)
Impedance : 50 Ω (Per Pin)
Contact Resistance : 25m Ω max.
Dielectric Withstanding Voltage : 200V AC/rms
Insulation Resistance : 500 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

Reference Information

Mated P/N : 56994

50996 Series

RF Coaxial Switch Conn.
SMT S/T H=0.9mm Type



Electrical

Voltage : 250V AC (Per Pin)
Impedance: 50 Ω
Contact Resistance : 50 m Ω Max.
Dielectric Withstanding Voltage : 300 V AC/rms
Insulation Resistance : 500 M Ω min. initial
Operating Temp. : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

56990 Series

1.13/1.37 \varnothing RF Cable
L=40~100mm



Electrical

Voltage : 60V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 20 m Ω Max. initial
 Δ 20 m Ω Max. after test.
Dielectric Withstanding Voltage : 200 V AC/rms
Insulation Resistance : 500 M Ω min. initial
100 M Ω min. after test.
Operating Temp. : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

56994 Series

0.81/1.13 \varnothing RF Cable
L=40~100mm



Electrical

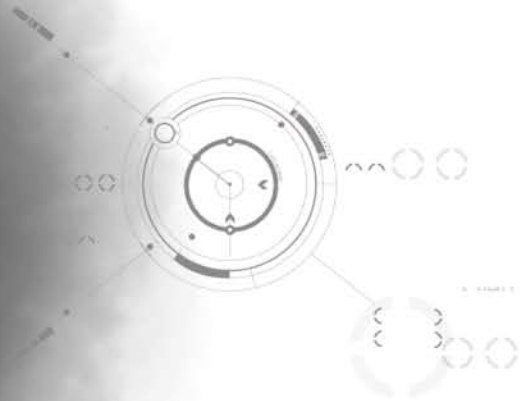
Voltage : 60V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 20 m Ω Max. initial
 Δ 20 m Ω Max. after test.
Dielectric Withstanding Voltage : 200 V AC/rms
Insulation Resistance : 500 M Ω min. initial
100 M Ω min. after test.
Operating Temp. : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

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ACES

M.2 Conn.





『 M.2 Connector 』

Photos	Product Family	Product Family Description	
	Standard Type	Description : 67 Circuits, 0.5 Pitch, Standard type, Key A/B/E/M, Product Height: 2.2/3.2/4.2/6.7mm(Max)	It is a natural transition from the Mini Card and Half Mini Card to a smaller form factor both in size and volume. M.2's more flexible physical specification allows different module widths and lengths, and, paired with the availability of more advanced interfacing features, makes the M.2 more suitable than mSATA for solid-state storage applications in general and particularly for the use in small devices such as ultrabooks or tablets. ACES offers a wide range of M.2 connectors that includes different body height, different key position options and can mating with single or double-sided modules. The new smaller form factor is suitable for applications in new thin platform.
	Sink Type	Description : 67 Circuits, 0.5 Pitch, Sink type, Key B/E/M, Above Height: 1.4/1.8mm	



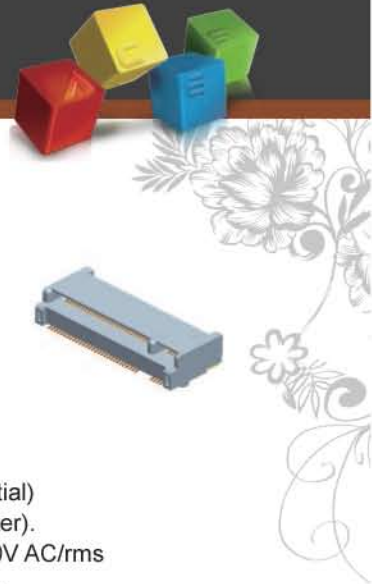
『 M.2 Connector 』

Product Family	P / N	Pitch (mm)	PCB Mount	Operation Direction	Product Height (mm)	Center Height (mm)	Above Height (mm)	Contact Position	Interface	Note ★ High Speed ◎ Key P/N
Standard type	51733	0.5	SMT	R/A	3.20	1.85	3.20	D/C	Standard	★ ◎
Standard type	51736	0.5	SMT	R/A	4.20	2.85	4.20	D/C	Standard	★ ◎
Standard type	51746	0.5	SMT	R/A	2.25	0.90	2.25	D/C	Standard	★ ◎
Standard type	51743	0.5	SMT	R/A	6.70	5.45	6.70	D/C	Standard	★ ◎
Sink type	51747	0.5	SMT/TH	R/A	3.00	0.40	1.40	D/C	Sink	★
Sink type	51749	0.5	SMT/TH	R/A	3.50	0.05	1.80	D/C	Sink	★

★ High Speed (M.2 - SATA gen3 - USB3.0 - Type C)
◎ Key P/N

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『 M.2 Connector 』

51733 Series

0.5mm Pitch M.2 Conn.
SMT D/R R/A H=3.2mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 55mΩ max(Initial)
20mΩ max(After).
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +80°C

Reference Information

★ High Speed Product:M.2

51736 Series

0.5mm Pitch M.2 Conn.
SMT D/R R/A H=4.2mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 55mΩ max(Initial)
20mΩ max(After).
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +80°C

Reference Information

★ High Speed Product:M.2

51746 Series

0.5mm Pitch M.2 Conn.
SMT D/R R/A H=2.25mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 55mΩ max(Initial)
20mΩ max(After).
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +80°C

Reference Information

★ High Speed Product:M.2

51743 Series

0.5mm Pitch M.2 Conn.
SMT D/R R/A H=6.7mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 55mΩ max(Initial)
20mΩ max(After).
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +80°C

Reference Information

★ High Speed Product:M.2

51747 Series

0.5 mm Pitch M.2 Conn.
Hybrid D/R R/A H=3.0mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 55mΩ max(Initial)
20mΩ max(After).
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +80°C

Reference Information

★ High Speed Product:M.2

51749 Series

0.5mm Pitch M.2 Conn.
Hybrid D/R R/A H=3.5mm Type



Electrical

Voltage : 50V AC (Per Pin)
Current : 0.5A (Per Pin)
Contact Resistance : 55mΩ max(Initial) - 20mΩ max(After)
Dielectric Withstanding Voltage : 300V AC/rms
Insulation Resistance : 500 MΩ min.
Operating Temp. : -40°C ~ +80°C

Reference Information

★ High Speed Product:M.2

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LVDS Conn.





Product Profile

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『LVDS Connector』

Photos	Product Family	Product Family Description
	0.4mm	<p>0.4mm pitch horizontal & vertical type connector with shield cover over solder tails. Improved transmission efficiently, High level EMI shield performance and multi point ground.</p> <p>Application: Smartphone & Cell Phone / Notebook PC & Tablet PC / Professional TV camera / Digital camera / Security & Network camera / Multifunction printer / Printer / Projector / Amusement</p>
	0.5mm	<p>0.5mm pitch horizontal & vertical type connector with shield cover over solder tails. Improved transmission efficiently, High level EMI shield performance and multi point ground.</p> <p>Applications: Various slim displays / Media streaming device / Set-top box / Projector / Notebook PC & Tablet PC / LCD TV / Professional TV camera Printer /</p>

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『LVDS Connector』

Type	P / N	Pitch (mm)	PCB Mounting	Operation Direction	Product Height(mm)	Mating Height(mm)	Note ★ High Speed ◎ Key P/N
Receptacle	50453	0.4	SMT	R/A	1.00	1.00	★ ◎
Plug	50454	0.4	NA	R/A	1.00	1.00	★ ◎
Receptacle	50463	0.4	SMT	S/T	1.30	1.65	★ ◎
Plug	50464	0.4	NA	S/T	1.60	1.65	★ ◎
Receptacle	50203	0.5	SMT	R/A	2.65	2.65	◎
Plug	50204	0.5	NA	R/A	2.24	2.65	◎
Receptacle	50406	0.5	SMT	S/T	1.80	2.00	★ ◎
Plug	50407	0.5	NA	S/T	1.80	2.00	★ ◎
Receptacle	50473	0.5	SMT	R/A	1.00	1.00	◎
Plug	50384	0.5	NA	R/A	0.85	1.00	◎

★ High Speed (SATA gen3 · USB3.0 · Type C)
◎ Key P/N

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『 LVDS Connector 』

50453 Series

0.4mm Pitch WTB LVDS Coax. Rcpt. Conn.
SMT S/R R/A Type.



Electrical

Voltage : 100V AC
Current : AWG#36/0.80A \ AWG#40/0.30A
AWG#42/0.24 A \ AWG#44/0.10 A
Contact Resistance: 60m Ω max.
Dielectric Withstanding Voltage: 250V AC/rms
Insulation Resistance: 1000 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

Reference Information

Mated P/N : 50454
★ High Speed Product:USB 3.0

50454 Series

0.4mm Pitch WTB LVDS Coax. Plug Conn.
S/R R/A Type.



Electrical

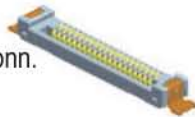
Voltage : 100V AC
Current : AWG#36/0.80A \ AWG#40/0.30A
AWG#42/0.24 A \ AWG#44/0.10 A
Contact Resistance : 60m Ω max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 1000 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

Reference Information

Mated P/N : 50453
★ High Speed Product:USB 3.0

50463 Series

0.4mm Pitch WTB LVDS Coax. Rcpt. Conn.
SMT S/R S/T Type



Electrical

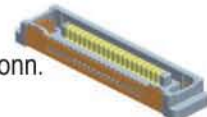
Voltage : 100V AC
Current : AWG#36~42/0.24 A
Contact Resistance : 60m Ω max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 1000 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

Reference Information

Mated P/N : 50464
★ High Speed Product:USB 3.0

50464 Series

0.4mm Pitch WTB LVDS Coax. Plug Conn.
S/R S/T Type



Electrical

Voltage : 100V AC
Current : AWG#36~42/0.24 A
Contact Resistance : 60m Ω max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 1000 M Ω min.
Operating Temp. : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C

Reference Information

Mated P/N : 50463
★ High Speed Product:USB 3.0

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『 LVDS Connector 』

50203 Series

0.5mm Pitch WTB LVDS Coax. Rcpt. Conn.
SMT S/R R/A Type



Electrical

Voltage : 100V AC
Current : AWG#36/0.8A 、 AWG#38/0.6A 、 AWG#40/0.3A
Contact Resistance : 50mΩ max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 1000 MΩ min.
Operating Temp. : -20℃ ~ +85℃

Reference Information

Mated P/N : 50204

50204 Series

0.5mm Pitch WTB LVDS Coax. Plug Conn.
S/R R/A Type



Electrical

Voltage : 100V AC
Current : AWG#36/0.8A 、 AWG#38/0.6A 、 AWG#40/0.3A
Contact Resistance : 50mΩ max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 1000 MΩ min.
Operating Temp. : -20℃ ~ +85℃

Reference Information

Mated P/N : 50203

50406 Series

0.5mm Pitch WTB LVDS Coax. Rcpt. Conn.
SMT S/R S/T Type



Electrical

Voltage : 50V AC
Current : AWG#32/0.35 A 、 AWG#34/0.35 A 、
AWG#36/0.30 A 、 AWG#40/0.25 A
AWG#42/0.20 A

Contact Resistance : 90mΩ max.
Dielectric Withstanding Voltage : 150V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -55℃ ~ +85℃

Reference Information

Mated P/N : 50407

★ High Speed Product: SATA gen3 、 USB 3.0

50407 Series

0.5mm Pitch WTB LVDS Coax. Plug Conn.
S/R S/T Type



Electrical

Voltage : 50V AC
Current : AWG#32/0.35 A 、 AWG#34/0.35 A
AWG#36/0.30 A 、 AWG#40/0.25 A 、
AWG#42/0.20 A

Contact Resistance : 90mΩ max.
Dielectric Withstanding Voltage : 150V AC/rms
Insulation Resistance : 100 MΩ min.
Operating Temp. : -55℃ ~ +85℃

Reference Information

Mated P/N : 50406

★ High Speed Product: SATA gen3 、 USB 3.0

50473 Series

0.5mm Pitch WTB LVDS Coax. Rcpt. Conn.
SMT S/R R/A Type



Electrical

Voltage : 100V AC
Current : 0.8A
Contact Resistance : 40mΩ max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 1000 MΩ min.
Operating Temp. : -40℃ ~ +85℃

Reference Information

Mated P/N : 50384

50384 Series

0.5mm Pitch WTB LVDS Coax. Plug Conn.
S/R R/A Type.



Electrical


Voltage : 100V AC
Current: 0.8A
Contact Resistance : 40mΩ max.
Dielectric Withstanding Voltage : 250V AC/rms
Insulation Resistance : 1000 MΩ min.
Operating Temp. : -40℃ ~ +85℃

Reference Information

Mated P/N : 50473

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A large, dark, circular graphic with a textured, ink-like appearance. Inside the circle, there are technical diagrams including a central circular diagram with arrows and lines, and several smaller circles and lines. Below the main circle, a tree with bare branches grows out of a smaller globe. The background is white with some faint, light gray circular shapes.

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Automotive Conn.




Product Profile

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『Automotive Connector』

Photos	Product Family	Product Family Description
	ECU conn	<p>Features:</p> <ul style="list-style-type: none"> • Designed for interconnections for automotive electronic equipment. • Designed for high density packaging with numerous contacts in an electronic control unit. • Signal contacts and power contacts are housed in the same connector. • Several wire-terminated sockets are coupled with a pin header mounted on a board. • Mechanical socket structure design which is more reliable and stable for each module's connection. • Simplified crimp type termination. <p>Applications:</p> <ul style="list-style-type: none"> - For Automobile, truck and bus connectivity solution.
	Parking sensor	<p>Features:</p> <ul style="list-style-type: none"> - Supports wide range of temperatures from -40 to +105 degree - Highly reliable socket structure design which is more stable for module and pcbs connections. - Highly reliable and flexible for any molding requirements. - Compatible with most of the sensor modules. <p>Applications:</p> <ul style="list-style-type: none"> - For Automobile, truck and bus connectivity solution.
	Camera module	<p>Features:</p> <ul style="list-style-type: none"> - Supports wide range of temperatures from -40 to +105 degree - Easy for wire and module installations - Highly reliable socket structure design which is more stable for module and pcbs connections. - Compatible with most of the sensor modules. - UV resistance - Meet EMI qualification <p>Applications:</p> <ul style="list-style-type: none"> - For Automobile, truck and bus connectivity solution.



『Automotive Connector』

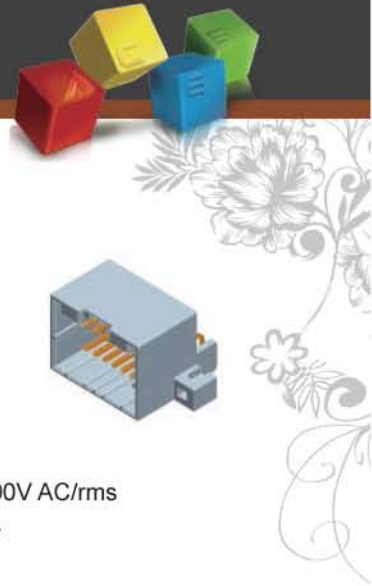
TYPE	P / N	Pitch (mm)	PCB Mounting	Operation Direction	Sealed	Note ★ High Speed ◎ Key P/N
Wafer	91235	2.2	T/H	R/A	No	◎
Wafer	92004	2.54 / 5.08 / 8.1	T/H	S/T	No	
Wire-to-Wire	92201	2.4	NA	NA	Yes	
Wire-to-Wire	92202	2.4	NA	NA	Yes	
Wafer	92206	2.5	T/H	R/A	No	◎
Wafer	92207	2.54	T/H	R/A	No	◎
Wafer	92208	2.54	T/H	R/A	No	◎
Wafer	92211	4.0	T/H	R/A	No	◎
Wafer	92213	3.5	T/H	R/A	No	
Wire-to-Wire	92221	2.54	NA	NA	Yes	
Wafer	92235	2.2	T/H	S/T	No	◎
Wafer	92236	24.0	T/H	R/A	No	

TYPE	P / N	Current Rating(A)	Rating Voltage (V)	Sealed	Note ★ High Speed ◎ Key P/N
Parking sensor	92000	5	14	Yes	
Camera Holder Module	92005	1	14	Yes	
Camera Holder Module	92006	1	14	Yes	
Harness Ass'y	92007	1	14	Yes	
Service Plug	92100	150~250	450	Yes	
AC Coupler	92101	10~63	250	Yes	

★ High Speed (sata gen3 - USB3.0 - Type C)
◎ Key P/N

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『Automotive Connector』

91235 Series

2.2mm Pitch WTB Wafer Conn.
T/H D/R R/A Type

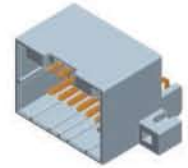


Electrical

Voltage : 13V AC/DC (Per Pin)
Current : 4A (Per Pin)
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 M Ω min.
Operating Temp. : -40°C ~ +105°C

92206 Series

2.5mm Pitch WTB Wafer Conn.
T/H D/R R/A Type



Electrical

Voltage : 32V AC/DC (Per Pin)
Current : 5A (Per Pin)
Dielectric Withstanding Voltage : 1000V AC/rms
Insulation Resistance : 100 M Ω min.
Operating Temp. : -40°C ~ +105°C

92207 Series

2.54mm Pitch WTB Wafer Conn.
T/H D/R R/A Type



Electrical

Voltage : 14V AC/DC (Per Pin)
Current : 5A (Per Pin)
Dielectric Withstanding Voltage : 1600V AC/rms
Insulation Resistance : 100 M Ω min.
Operating Temp. : -40°C ~ +85°C

92208 Series

2.54mm Pitch WTB Wafer Conn.
T/H D/R R/A Type

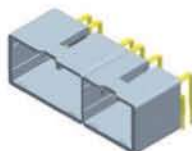


Electrical

Voltage : 14V AC/DC (Per Pin)
Current : 5A (Per Pin)
Dielectric Withstanding Voltage : 1600V AC/rms
Insulation Resistance : 100 M Ω min.
Operating Temp. : -40°C ~ +85°C

92211 Series

4.0mm Pitch Wafer Conn.
T/H D/R R/A Type



Electrical

Voltage : 13V AC/DC (Per Pin)
Current : 3A (Per Pin)
Dielectric Withstanding Voltage : 1000V AC/rms
Insulation Resistance : 100 M Ω min.
Operating Temp. : -30°C ~ +80°C

92235 Series

2.2mm Pitch WTB Wafer Conn.
T/H D/R S/T H=23.4mm Type



Electrical

Voltage : 13V AC/DC (Per Pin)
Current : 4A (Per Pin)
Dielectric Withstanding Voltage : 500V AC/rms
Insulation Resistance : 100 M Ω min.
Operating Temp. -40°C ~ +105°C

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