AVX MOBO® Spring Contact Interconnect Solutions



Version 13.8



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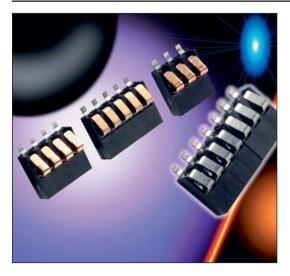


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9155 Standard Battery





GENERAL DESCRIPTION

The standard battery connector is specifically designed for mobile equipment.

The connectors are available in 3, 4 and 5 contact positions all on a 2.50mm pitch. The insulator height provides a 3mm spacing, with various contact nose heights from 1.20mm to 2.60mm, to provide spacing options to the end user.

All contacts are stamped and are rated to 3A, with Gold plating. Parts are supplied in tape and reel for automatic pick and place. Optional retaining brackets are available to provide greater strength when connected to the PCB.

Whatever your requirements, the 9155 series Battery Connector can also be customized to suit your applications.

APPLICATIONS

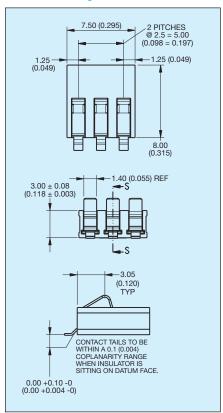
- Mobile Phones
- PDA
- Medical
- PMR
- Industrial

KEY FEATURES AND BENEFITS

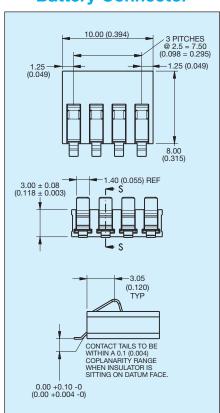
- Suitable for 5000 mechanical cycles.
- · Variety of contact heights offered to suit different mechanical designs.
- Connectors can be end to end stackable.
- RoHS Compliant available.



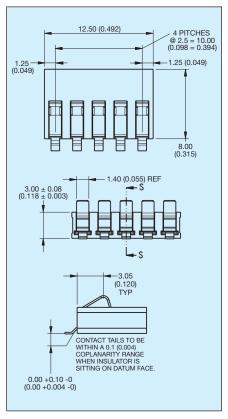
3 Way Battery Connector



4 Way Battery Connector



5 Way Battery Connector

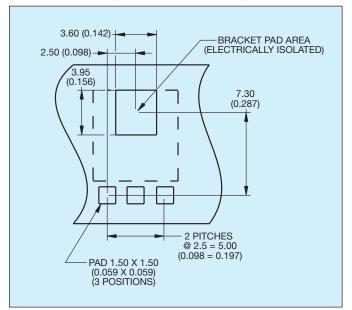




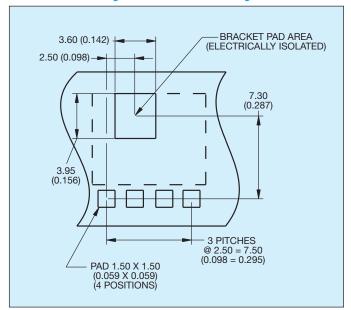
9155 Standard Battery



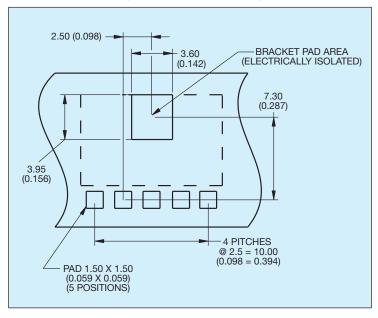
3 Way PCB Board Layout



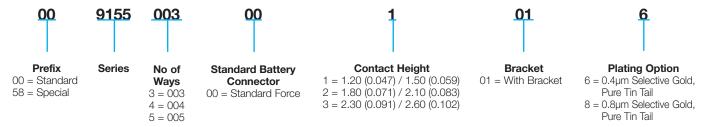
4 Way PCB Board Layout



5 Way PCB Board Layout



HOW TO ORDER





9155 Size Reduced Battery Connector



GENERAL DESCRIPTION

The newest product in AVX's Interconnect family of battery connectors saves 50% in volume over the initial 9155 series compression connectors as illustrated in the photograph. These connectors are rated at a full 3 amps per contact on 2.5mm centers. Sizes range from 2 positions through 5 positions and are end to end stackable.

APPLICATIONS

- Cellular Phones
- Handheld Devices
- Industrial Modules
- Medical Electronics

KEY FEATURES AND BENEFITS

- 2.4mm insulator height
- 3 amps/contact
- Large SMT mounting area for positive mechanical attachment
- 5k mating cycles
- End-to-end stackable



HOW TO ORDER





Code 002 003

004

No. of Ways

20)1



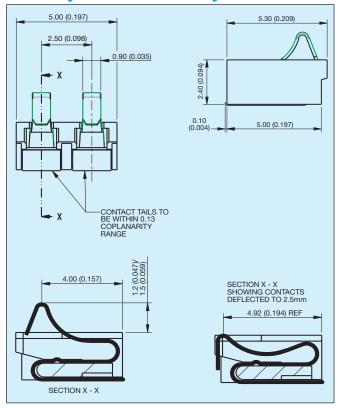
XXX	
Plating	Option

Code		
006	006 0.4µm Selective Gold, Pure Tin Tail	
008	0.8µm Selective Gold, Pure Tin Tail	

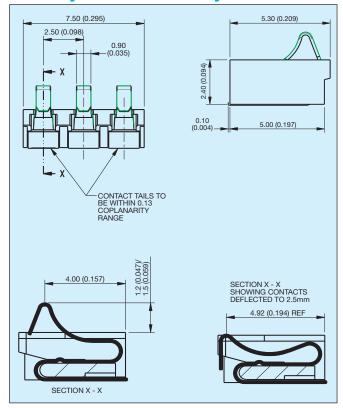
,	No. of Ways	Reel Qty	Packing Qty
	2	2000	2000
	3	2000	2000
	4	2000	2000
٦	5	2000	2000

9155 Size Reduced Battery Connector

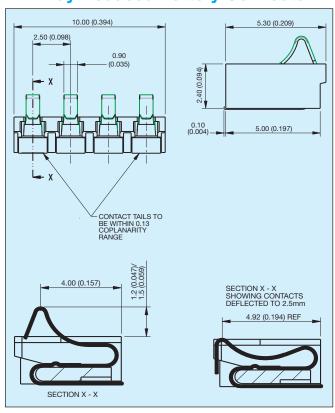
2 Way Reduced Battery Connector



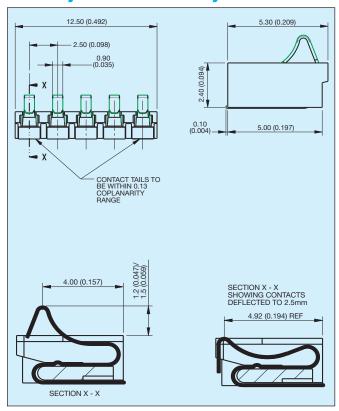
3 Way Reduced Battery Connector



4 Way Reduced Battery Connector



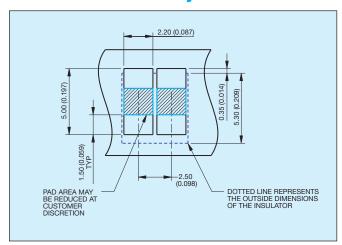
5 Way Reduced Battery Connector



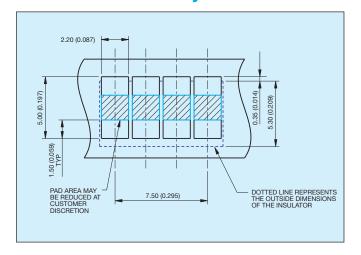


9155 Size Reduced Battery Connector

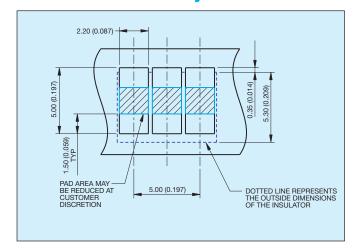
2 Way Reduced Battery Connector PCB Layout



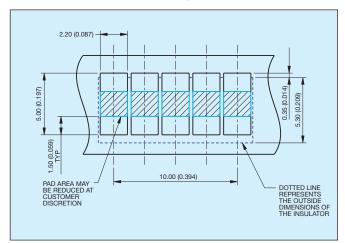
4 Way Reduced Battery Connector PCB Layout



3 Way Reduced Battery Connector PCB Layout



5 Way Reduced Battery Connector PCB Layout



9155 Ultra-Low Profile Battery



GENERAL DESCRIPTION

The AVX Interconnect group has released a new ultra-low profile 3 amp per contact connector for battery pack or slide-in module applications. The compressed "Z" axis height of 1.3mm leads the industry from a profile standpoint. The initial product is in a 2 & 3 position configuration with other sizes expected to follow. The connector has an integral end block to act as a mechanical stop.

APPLICATIONS

- Cellular Phones
- Handheld Devices
- Industrial Modules
- Medical Electronics

KEY FEATURES AND BENEFITS

- Ultra-Low Profile
- 3 amps/contact
- Integral End Stop
- 5k mating cycles





HOW TO ORDER





 Code
 No. of Ways
 Qty. Per Reel

 002
 2
 1500

 003
 3
 1200



 Code
 Description
 Operating Height

 101
 Low Profile Battery Connector
 1.30 (0.051)



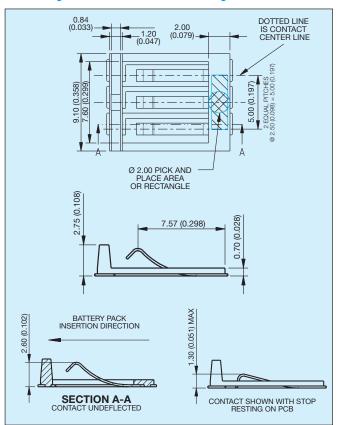
Plating Option

Code	Description
006	0.4µm Selective Gold, Pure Tin Tail
008	0.8um Selective Gold, Pure Tin Tail

2 Way Low Profile Battery Connector

2.00 1.20 ^(0.079) (0.098)DOTTED LINE IS CONTACT CENTER LINE 2.50 6.60 (0.260) 5.10 (0.201) Ø 2.00 PICK AND PLACE AREA OR RECTANGLE (0.108)0.70 (0.028) 2.75 7.57 (0.298) .30 (0.051) MAX BATTERY PACK INSERTION DIRECTION (0.102)2.60 SECTION A-A CONTACT UNDEFLECTED CONTACT SHOWN WITH STOP

3 Way Low Profile Battery Connector

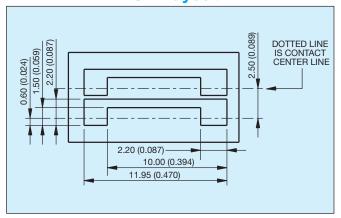




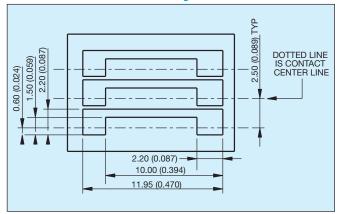
9155 Ultra-Low Profile Battery



2 Way Low Profile Battery Connector PCB Layout



3 Way Low Profile Battery Connector PCB Layout



9155 MOBO® Solderless Battery Connectors



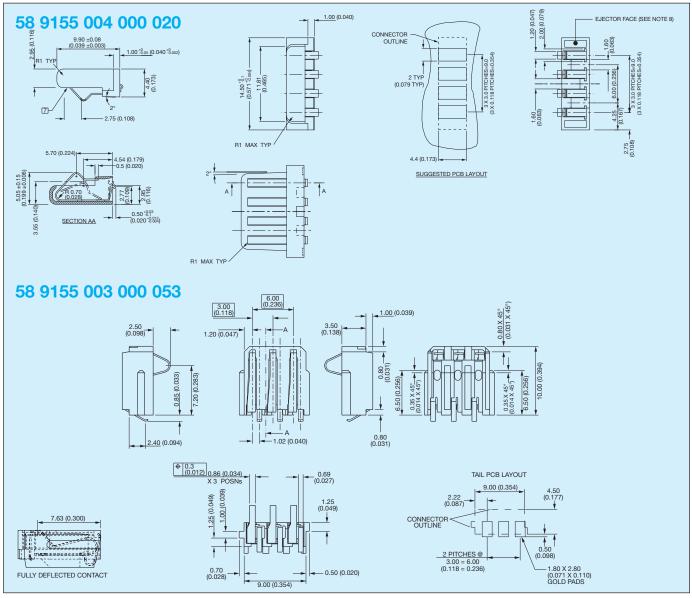


GENERAL DESCRIPTION

As an addition to our range of Battery connectors we have added a solderless termination option. This option has the termination area gold plated and the contact form is compression to the PCB and to the Battery which is used in the end equipment.

Rated at 3 Amps and 5,000 operations (the same as the SMT version). These battery connectors compliment the existing standard range of RoHS compliant components giving the designer an added option of the solderless termination.

When these connectors are held in place by the casing of the end equipment, the connection to the PCB is achieved by compressing the connector contacts against the PCB and against the actual battery. It is the housing which maintains the connection.







GENERAL DESCRIPTION

A further addition to the battery connector range offered by AVX is a 90 degree version. On a 3mm pitch, offered in 2 to 5 contact positions and rated as with all of the battery range at 3 amps. The connector's design is small and compact to minimize its profile yet stable while having a contact point 4.61mm above the PCB.

The stability comes from the addition of extra SMT anchor brackets that are in between the SMT contact pads and both at the front of the connector and within the row of the contact SMT pads.

As with the other 9155 series of battery connectors offered by AVX the 90 degree version is rated at 3 amps and 5000 mating cycles, RoHS compliant and using high temperature plastic enables the connectors to be processed at up to 260°C.

APPLICATIONS

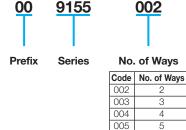
- Mobile phones
- Digital music players
- Hand held terminals
- Data terminals or any other small portable device

FEATURES AND BENEFITS

- Simple designed spring contact
- End to end stackable for larger pin counts
- Additional contact anchor brackets to added stability on the PCB
- Robust to shock and vibration
- Selectively plated contact area



HOW TO ORDER





Right Angle

Battery Connector		
Code Description		
301	Right Angle 3.00mm	
	Battery Connector	

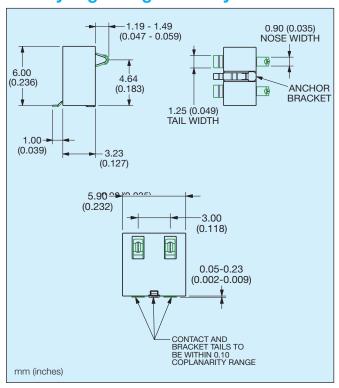


Plating Option

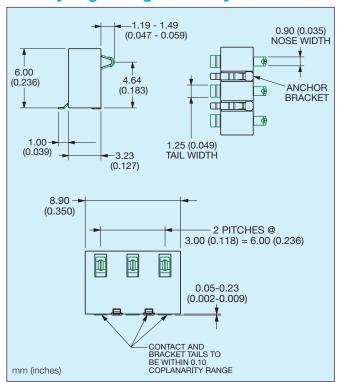
Code	Description	
006	0.4µm Selective Gold, Pure Tin Tail	
008	0.8µm Selective Gold, Pure Tin Tail	



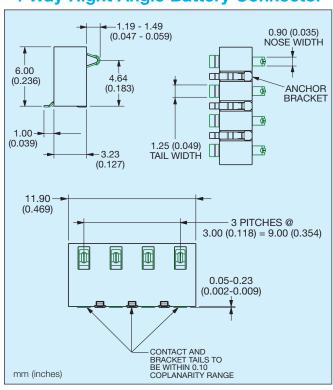
2 Way Right Angle Battery Connector



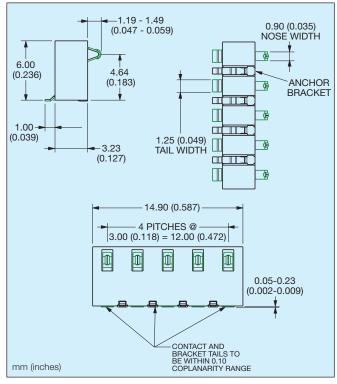
3 Way Right Angle Battery Connector



4 Way Right Angle Battery Connector



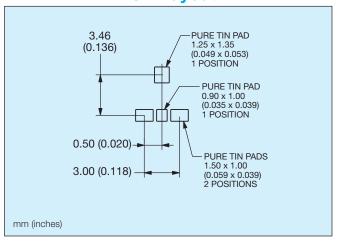
5 Way Right Angle Battery Connector



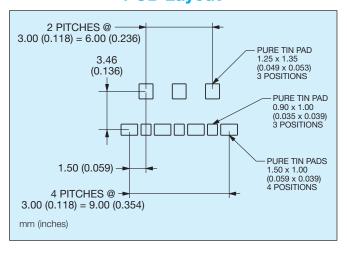




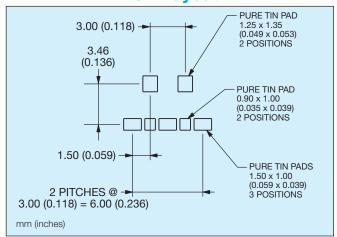
2 Way Right Angle Battery Connector PCB Layout



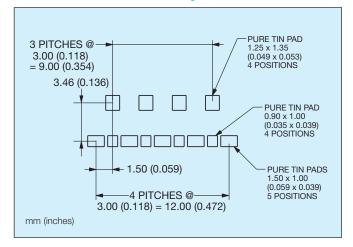
4 Way Right Angle Battery Connector PCB Layout



3 Way Right Angle Battery Connector PCB Layout



5 Way Right Angle Battery Connector PCB Layout







APPLICATIONS

- Mobile Phones
- Digital Music Players
- Any Handheld Devices

HOW TO ORDER



No. of Ways	
Code	No. of Ways
002	2
003	3
004	4
005	5



Right Angle Battery Connector

Code	Description
541	Right Angle 2.5mm
	Battery Connector

GENERAL DESCRIPTION

AVX extends the battery connector range with the addition of a low profile 2.5mm pitch right angle connector. This connector is offered in 2 to 5 positions and is rated at 3 amps. The connector's design is small and compact to minimize its profile yet functionally stable having a contact point at 2.20mm above the PCB.

The unique design of this stamped contact allows for a maximum insulator height of 4.0mm which makes it size compatible with more expensive pogo pin style battery connectors.

The complete family of battery connectors from AVX offer all of the same advantages; Beryllium Copper base material for enhanced contact performance, a full 3 amp current rating, selective gold plating for 5000 mating cycles and high temperature plastic for RoHS soldering.

KEY FEATURES AND BENEFITS

- · Reliable stamped contact with coined nose
- Full 1.5mm nose deflection for large operating range
- Two anchor tabs for mechanical stability
- 5000 cycle durability rating
- Minimized X, Y and Z package dimensions



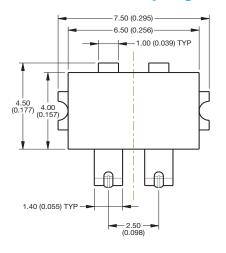


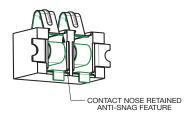
Plating Option

Code		
006	0.4µm Selective Gold, Pure Tin Tail	
008	0.8µm Selective Gold, Pure Tin Tail	

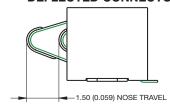


2 Way Right Angle Battery Connector

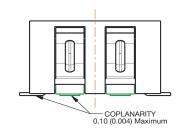


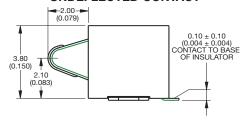


DEFLECTED CONNECTOR

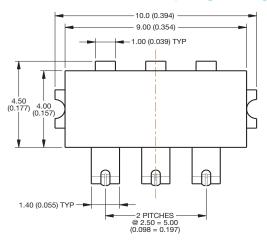


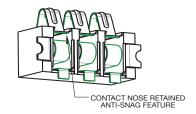
UNDEFLECTED CONTACT



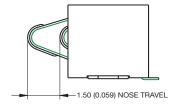


3 Way Right Angle Battery Connector

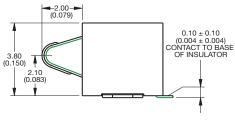


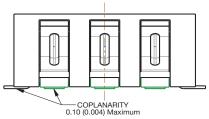


DEFLECTED CONNECTOR



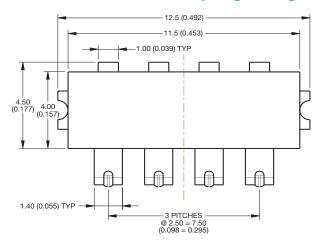
UNDEFLECTED CONTACT

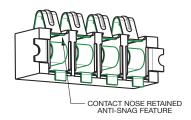




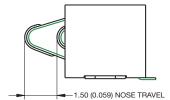


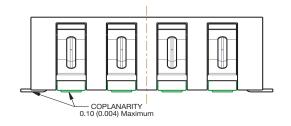
4 Way Right Angle Battery Connector



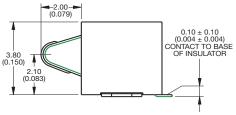


DEFLECTED CONNECTOR

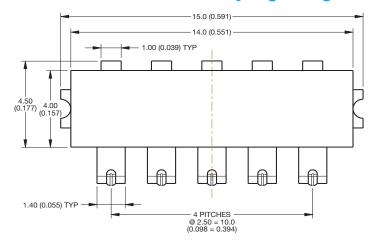


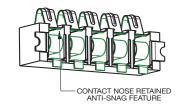




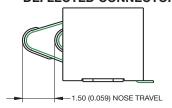


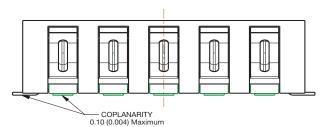
5 Way Right Angle Battery Connector





DEFLECTED CONNECTOR



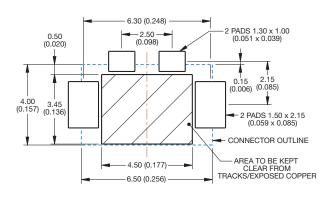


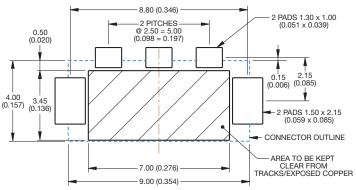
UNDEFLECTED CONTACT 0.10 ± 0.10 (0.004 ± 0.004) CONTACT TO BASE OF INSULATOR 3.80 (0.150) 2.10 (0.083)



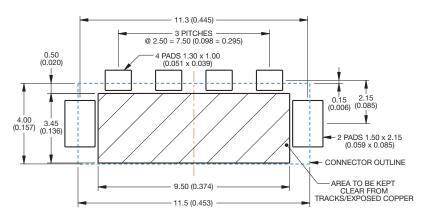
2 Way Right Angle Battery Connector PCB Layout

3 Way Right Angle Battery Connector PCB Layout

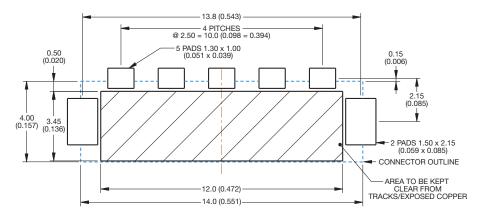




4 Way Right Angle Battery Connector PCB Layout



5 Way Right Angle Battery Connector PCB Layout





Single Compression Contact: Board-to-Board (BTB)



Series 70-9155



Designers for ruggedized connectors to meet harsh environments continue to look for new products which will reduce size and cost without jeopardizing performance. The new Ultra-Low Profile (ULP) compression contact from AVX surface mounts to a PCB and provides a reliable compression connection to the mating board, even under extreme shock and vibration applications. With over 20 years of 1-Piece compression contact experience, this innovative contact offers full connector performance functionality at the individual contact level. Thus, allowing single contacts to be placed in any location or position on a PCB.

The high force beryllium copper contact is gold plated to maximize reliability and signal integrity. The current offering has two contacts with nominal heights of 1.0mm and 1.5mm. Add in the "Z" axis tolerance range and the compressed height covers 0.75mm up to 1.75mm. The contacts are supplied in tape and reel for easy SMT placement.

APPLICATIONS

- Industrial/Ruggedized handheld or portable devices
- BTB connection for any traditional power or signal application
- Ground connections between PCB's or housings

FEATURES AND BENEFITS

- Reliable gold plated Beryllium Copper contacts for high cycle life and signal integrity up to 1000 cycles
- Tape and reel packaged for automated SMT placement
- Sweeping beam design for pluggable/module applications
- Three gold plating options to match end product environmental or expected life requirements

ELECTRICAL

- Current Rating: 3 Amps
- Voltage Rating: Based on placement distance

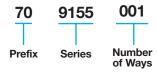
ENVIRONMENTAL

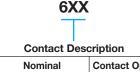
Operating Temperature:
 -40°C to +125°C

MECHANICAL

- Contact Material: Beryllium Copper
- Contact Plating: Gold over Nickel
- Durability: 50, 500 and 1000 cycles

HOW TO ORDER





Code	Nominal Operating Height	Contact Operating Height Range
610	1.00mm	0.75mm to 1.25mm
615	1.50mm	1.25mm to 1.75mm



Code	Gold Thickness	Description	Availability
004	0.1µm	Nickel under Plate, Gold on Nose Tin on Remainder	Standard
006	0.4µm	Nickel under Plate, Gold on Nose Tin on Remainder	Special Order
008	0.8µm	Nickel under Plate, Gold on Nose Tin on Remainder	Special Order



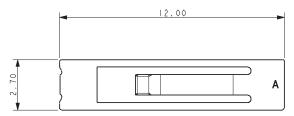


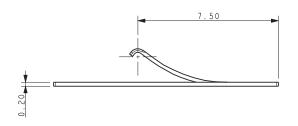
Single Compression Contact: Board-to-Board (BTB)



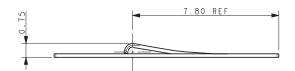
Series 70-9155

70-9155-001-610-006 NOMINAL WORKING HEIGHT 1.00MM



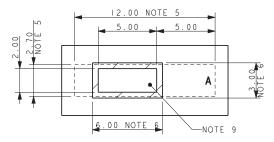






FULLY DEFLECTED CONTACT

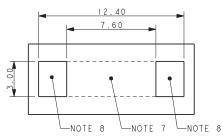
SUGGESTED MATING PCB LAYOUT

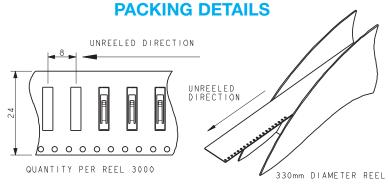


NOTES:

- 1. 9155 LOW PROFILE CONTACT, WORKING HEIGHT 0.75MM TO 1.25MM.
- 2. FOR FULL DETAILS REFER TO PRODUCT SPECIFICATION 201-01-153 AND APPLICATIONS NOTES 201-01-154.
- 3. MATERIAL: COPPER ALLOY 0.2MM THICK.
- 4. PLATING: NICKEL ALL OVER WITH GOLD ON CONTACT NOSE AND TIN ON THE REMAINDER. PARTS TO BE PACKED IN TAPE AND REEL. QTY PER REEL 3000.
- 5. OUTLINE OF CONNECTOR, ORIENTATION END "A".
- AREA TO KEPT FREE OF SOLDER RESIST, FURTHER INFORMATION IN APPLICATION NOTES.
- 7. AREA BETWEEN PADS TO BE KEPT CLEAR OF TRACKS AND COMPONENTS.
- 8. SMT PADS PLATED TIN.
- 9. MATING PAD PLATED GOLD OVER NICKEL.

SUGGESTED SMT PCB LAYOUT





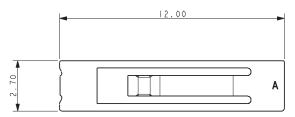


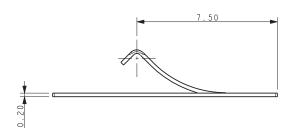
Single Compression Contact: Board-to-Board (BTB)

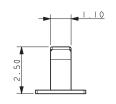


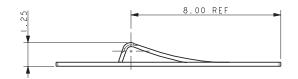
Series 70-9155

70-9155-001-610-006 NOMINAL WORKING HEIGHT 1.50MM



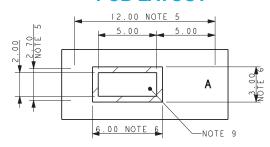






FULLY DEFLECTED CONTACT

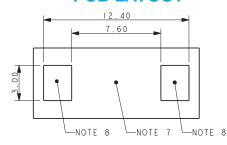
SUGGESTED MATING PCB LAYOUT

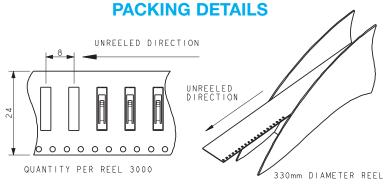


NOTES:

- 1. 9155 LOW PROFILE CONTACT, WORKING HEIGHT 0.75MM TO 1.25MM.
- 2. FOR FULL DETAILS REFER TO PRODUCT SPECIFICATION 201-01-153 AND APPLICATIONS NOTES 201-01-154.
- 3. MATERIAL: COPPER ALLOY 0.2MM THICK.
- 4. PLATING: NICKEL ALL OVER WITH GOLD ON CONTACT NOSE AND TIN ON THE REMAINDER. PARTS TO BE PACKED IN TAPE AND REEL. QTY PER REEL 3000.
- 5. OUTLINE OF CONNECTOR, ORIENTATION END "A".
- AREA TO KEPT FREE OF SOLDER RESIST, FURTHER INFORMATION IN APPLICATION NOTES.
- 7. AREA BETWEEN PADS TO BE KEPT CLEAR OF TRACKS AND COMPONENTS.
- 8. SMT PADS PLATED TIN.
- 9. MATING PAD PLATED GOLD OVER NICKEL.

SUGGESTED SMT PCB LAYOUT







9162 Slide-In SIM Card Connector





GENERAL DESCRIPTION

The standard SIM connector is specifically designed for handheld devices requiring secure subscriber identification.

Following on from the introduction of our standard SIM block with an offering of 3 standard heights, 0.80mm, 1.60mm, or 2.40mm, AVX is now adding another standard to the 9162 series SIM connectors, the slide-in SIM.

Unlike SIM blocks which require SIM card guides to aid insertion, removal and retention of the SIM card, the slide-in SIM has guides as part of the connector mold design.

Contacts are stamped, gold plated, rated 0.5A, and 5000 mechanical cycles. Our contact design is specifically rounded to avoid any possible damage during and after card insertion to the card itself, assuming normal use. The design also incorporates protection features to avoid contact damage during this operation such as contact snagging.

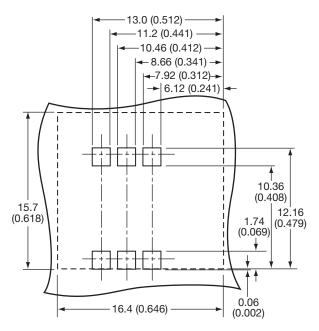
Please contact the appropriate sales office for further details of this service.

KEY FEATURES AND BENEFITS

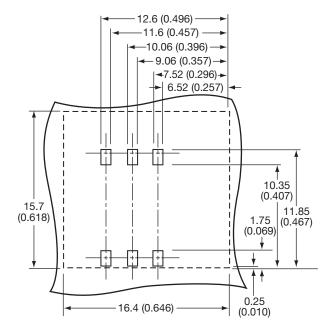
- Produced for use with mini SIM cards.
- The insulator is molded from high temperature plastic enabling the connector to be used in convection or infrared soldering processes.
- Supplied on tape and reel packaging for pick and place assembly.
- The all plastic design, assuming normal use prevents damage to the SIM card on insertion.
- Optional SMT contact size:
 Standard SMT contact size 1.60mm x 1.60mm
 Narrow SMT contact size 1.05mm x 0.60mm
- RoHS Compliant available.



Standard SMT Contact Layout



Narrow SMT Contact Layout

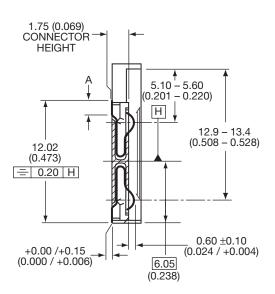




9162 Slide-In SIM Card Connector

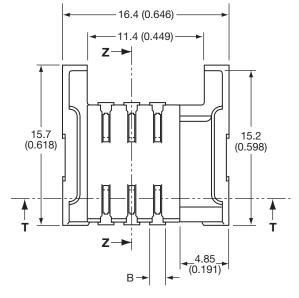


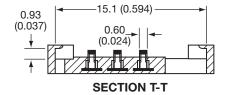
Connector Height 1.75mm



SECTION Z-Z

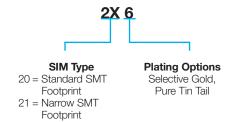
	Standard	Narrow			
Α	1.46 (0.057)	1.05 (0.041)			
В	1.60 (0.063)	0.60 (0.024)			





HOW TO ORDER



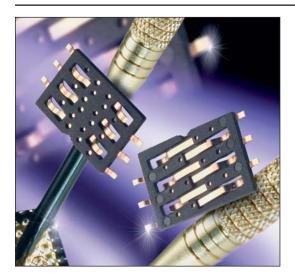




XXX

9162 SIM Card Block





GENERAL DESCRIPTION

The standard SIM connector is specifically designed for handheld devices requiring secure subscriber identification.

The connectors are available in a standard 6 pin configuration on a 2.54mm pitch with a 0.8mm height.

Contacts are stamped, gold plated, rated at 0.5A, and 5000 mechanical cycles.

Our contact design is specifically rounded to avoid any possible damage during and after card insertion to the card itself, assuming normal use. The design also incorporates protection features to avoid contact damage during this operation such as contact snagging.

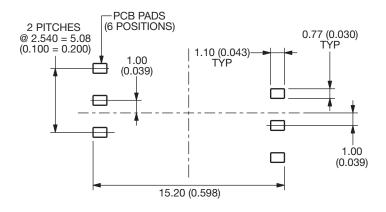
Please contact the appropriate sales office for further details.

KEY FEATURES AND BENEFITS

- Produced for use with both full ISO cards and mini SIM cards.
- The insulator is molded from high temperature plastic enabling the connector to be used in convection or infrared soldering processes.
- Supplied on tape and reel packaging for pick and place assembly.
- · RoHS Compliant.



0.8mm PCB Pad Layout

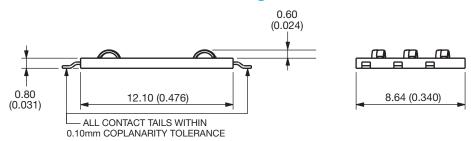




9162 SIM Card Block



Connector Height 0.8mm



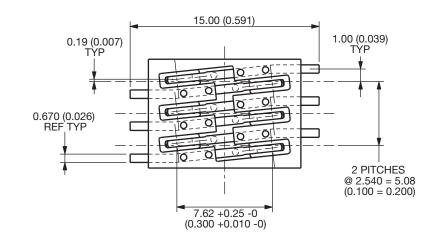
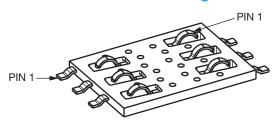


Illustration of Pin Configuration



HOW TO ORDER 00 9162 006 006 080 Prefix Series Number of Contacts SIM Type 006 Selective Gold, Pure Tin Tail

9162 SIM Connector with Locking Latch





GENERAL DESCRIPTION

For 9162 Slide-IN & 9162 SIM/microSD

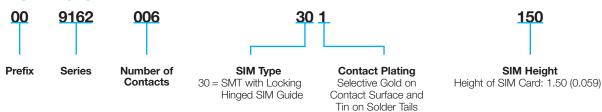
- Accepts GSM Standard 11.11 cards
- Secure locking latch mechanism
- Robust, good resistance against shock and vibration
- SIM Installed Height 1.50mm
- Polarized to eliminate improper insertion of the card

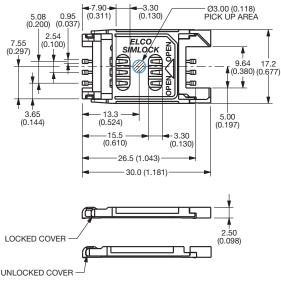
KEY FEATURES AND BENEFITS

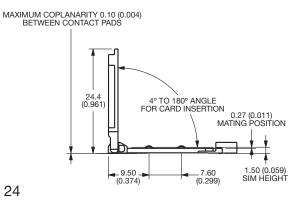
- SMT with locking hinged guide
- 2.50mm connector height
- Selective gold on mating surface/tin on solder tails
- Tape and reel packaging



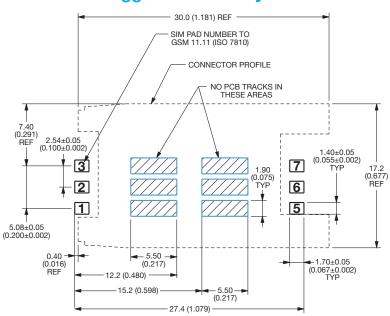
HOW TO ORDER







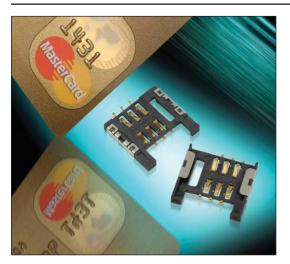
Suggested PCB Layout





9162 Slide-In Low Profile SIM Connector





GENERAL DESCRIPTION

- Six position Slide-In SIM
- Low Profile 0.70mm to SIM base
- · Side bracket to add solder security
- SIM guidance using the side walls

KEY FEATURES AND BENEFITS

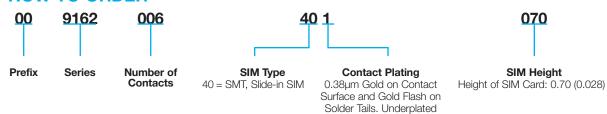
- SMT Slide-In SIM
- Molded in high temperature LCP
- 0.38µm Gold on contact surface and gold flash on contact tails
- 1.60mm connector height

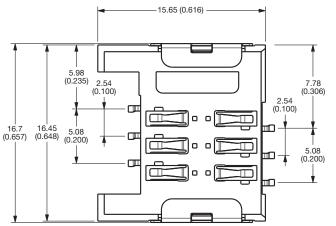
1.27µm Nickel.

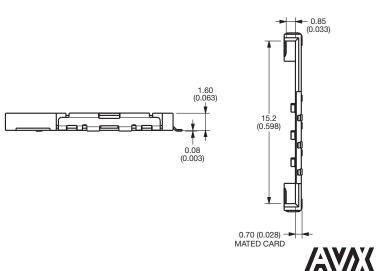
· Tape & Reel packaging



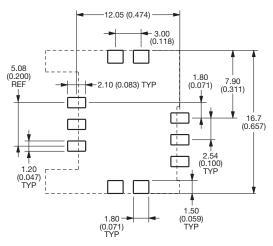
HOW TO ORDER







Suggested PCB Layout



9162 SIM/microSD Micro Combination Connector





GENERAL DESCRIPTION

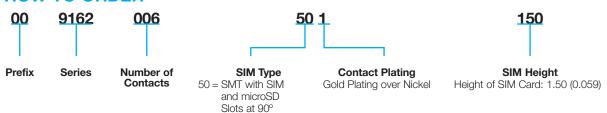
- Six position slide-in SIM connector & Push-Push microSD connector
- Allows two cards to be inserted into the same connector
- Card detect switch on the microSD

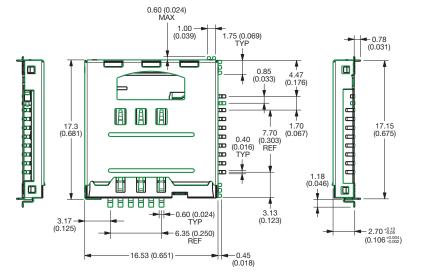
KEY FEATURES AND BENEFITS

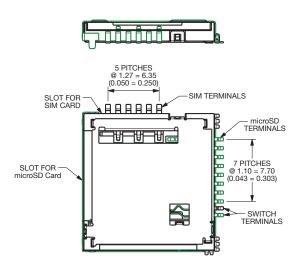
- Space saving connector combination
- Integrates 2 connectors into 1
- Contact Plating: Gold
- Insulator molded from LCP UL94 V-O
- Low profile 1.50mm to SIM
- 2.70mm connector height



HOW TO ORDER



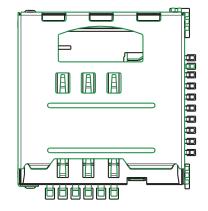




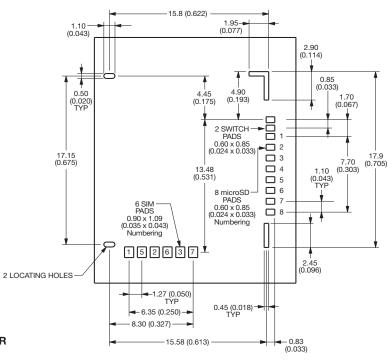
9162 SIM/microSD Micro **Combination Connector**



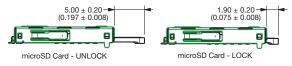
Connector on PCB

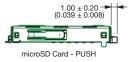


Recommended PCB Layout

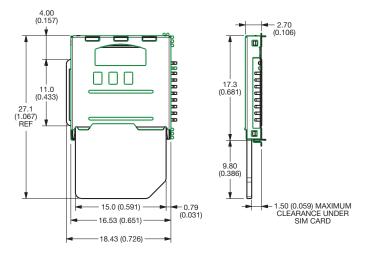


PCB SPACE USED BY CONNECTOR **CARDS FULLY INSERTED**

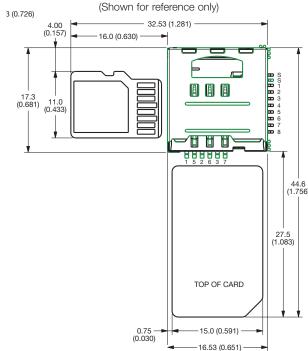








CARDS EXTRACTED



CONTACT FUNCTIONS (ISO7816):

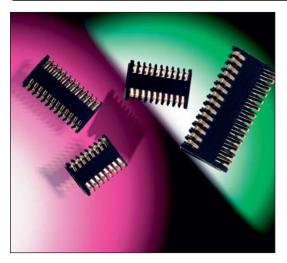
- 1. Supply Voltage Vcc
- 2. Reset
- 3. Clock
- 5. Ground
- 6. Program Voltage Vpp
- 7. I/O

MICRO SD FUNCTIONS: S. Switch S. Switch

- 1. DAT 2
- 2. CD/DAT 3
- 3. CMD
- 4. Vdd
- 5. Clock
- 6. Vss
- 7. DAT 0 8. DAT 1
- XXVX

9158 SOLO STACKER





GENERAL DESCRIPTION

The MOBO® series 9158 is a one-piece connector used to connect two PCBs within mobile phones, pagers, PDAs, security, handheld scanners, etc. in a cost-effective manner.

A standard range is available with 16, 20, 24 and 28 contacts to suit stack heights of 1.90mm to 3.30mm. Other contact variants are also available up to 5.10mm, in custom housings. The SOLO STACKER can allow a spacing tolerance of up to ± 0.30 mm and still provide reliable connections between the PCBs, even if they are not parallel.

SOLO STACKER is designed for PCB surface mounting and is supplied in tape and reel packaging. Gold plated pads on the mating PCB or suitable flex circuits provide connection between the boards.

Whatever your requirements this SOLO STACKER can also be customized to suit your applications.

APPLICATIONS

Suitable applications include:

- Mobile Phones
- PDA
- Medical
- PMR
- Industrial
- Security
- Handheld Scanner

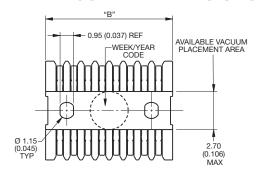
KEY FEATURES AND BENEFITS

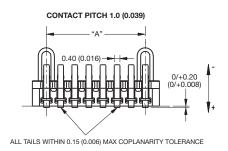
Single piece Connector – no mating half connector required to connect two boards together which means:

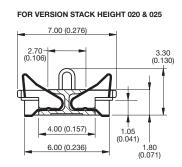
- · Reduced assembly time.
- Only one part to purchase and stock.
- Due to the unique contact design, the mating device does not have to be parallel.
- Extremely robust when subjected to shock and vibration.
- · Cost effective.
- Helps reduce tolerance accumulation within system.



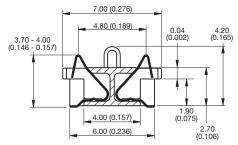
DRAWINGS AND DIMENSIONS







FOR VERSION STACK HEIGH	T 030



Number of Positions	Part Number	Α	В	
16	00-9158-016-XXX-XXX	7	9.00	
20	00-9158-020-XXX-XXX	9	11.00	
24	00-9158-024-XXX-XXX	11	13.00	
28	00-9158-028-XXX-XXX	13	15.00	

A = Number of contact pitches at 1mm

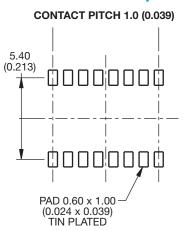
B = Connector Length

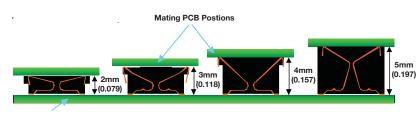


9158 SOLO STACKER



SMT PCB Footprint





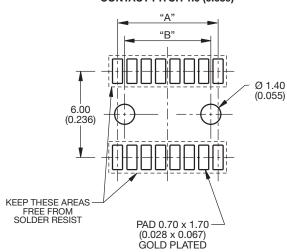
SMT PCB

Mating	Standard Positions			Special Positions*					
Height	16	20	24	28	4	18	30	32	40
2mm	Х	Х	Х	Х					
3mm	Х	Х	Х	Х				Х	
4mm					Х	Х			Х
5mm							Х		

Other sizes available on request.

Mating PCB Footprint for version stack height 020 & 030

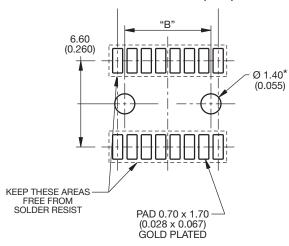
CONTACT PITCH 1.0 (0.039)



^{*} Used for Boss versions only.

Mating PCB Footprint for version stack height 025

CONTACT PITCH 1.0 (0.039)



HOW TO ORDER

00	9158
Prefix 00 = Standard	Series

No of Ways

No of Ways 16 = 016 20 = 020 24 = 024 28 = 028



Stack Height020 = 1.9mm to 2.1mm
025 = 2.1mm to 2.7mm
030 = 2.8mm to 3.3mm



Plating Variation
06 = Selective Gold
0.25µm
Gold Plated
Contact Nose,

Pure Tin Tail

PCB Location Bosses

В

16 20

24

28

Dim 6.00 (0.236)

8.00 (0.315)

10.00 (0.394)

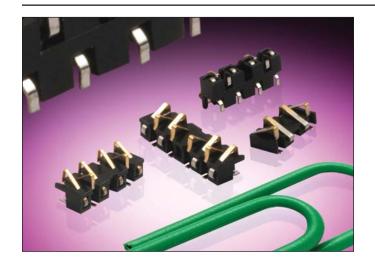
12.00 (0.472)

1 = With PCB Location Bosses 2 = Without PCB Location Bosses



^{*}Please consult with factory for availability.





GENERAL DESCRIPTION

The SOLO series 9188 is a one-piece connector used to connect two PCBs in a cost effective manner.

A standard range is available with 4, 6, 8 staggered contacts to suit stack heights of 1.1mm to 2.1mm (see table below).

SOLO Stacker is designed for PCB surface mounting and is supplied in tape and reel packaging. Gold plated pads on the mating PCB or suitable flex circuits provide connection between the two boards.

APPLICATIONS

Suitable applications include:

- Handheld Devices:
 - Phones
 - Scanners
 - Radios
 - Medical Diagnostic
 - Security Devices

KEY FEATURES AND BENEFITS

Single piece connector - no mating half required to connect two boards together which means:

- · Reduced assembly time
- Only one part to purchase and stock
- Due to the unique contact design, the mating device does not have to be parallel
- Helps reduce tolerance accumulation within system



HOW TO ORDER





No. of Ways

Stack Height Code No. of Ways No. of Ways Code Height 004 012 1.1mm to 1.3mm 006 1.9mm to 2.1mm 008

012

4 only

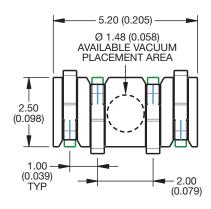
6 & 8 only

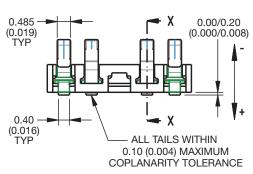


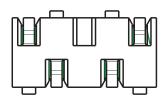
Plating Variation 06 = Selective Gold 0.25µm Gold Plated Contact Nose, Pure Tin Tail No Bosses



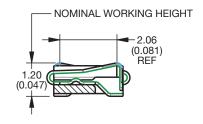
4 Way Staggered Stacker







MATING CONDITION



SECTION ON X - X CONTACT NOSE HEIGHT 1.60 (0.063) REF -2.50 (0.098) 1.00

-3.00 -(0.118)

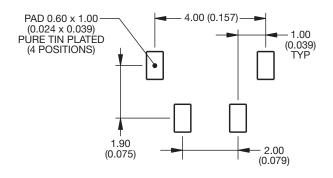
1.90/2.20

(0.075/0.087)

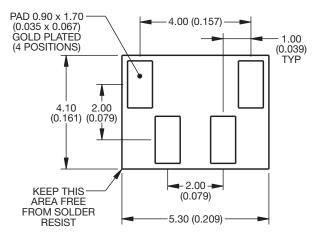
(0.039)



SMT PCB FOOTPRINT



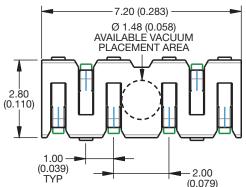
MATING PCB FOOTPRINT

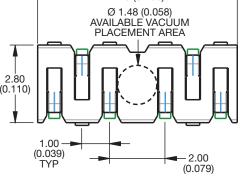




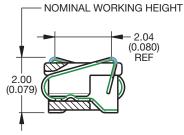


6 Way Staggered Stacker









SECTION ON X - X CONTACT NOSE HEIGHT

2.50

(0.098)

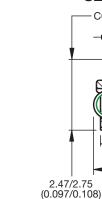
3.00

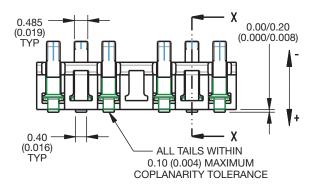
(0.118)

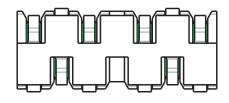
(0.065)REF

1.70

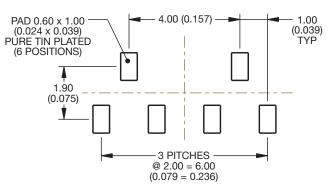
(0.067)



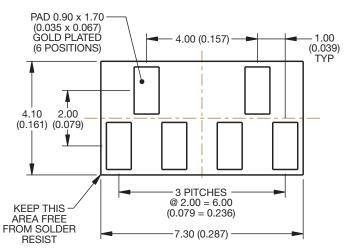




SMT PCB FOOTPRINT



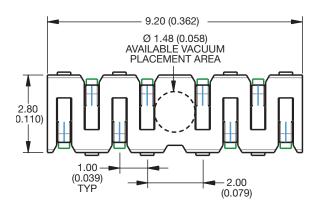
MATING PCB FOOTPRINT

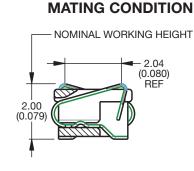


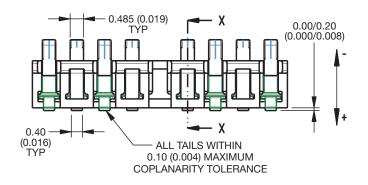


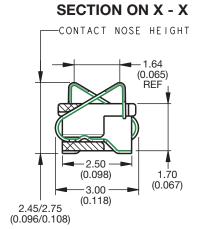


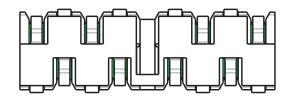
8 Way Staggered Stacker



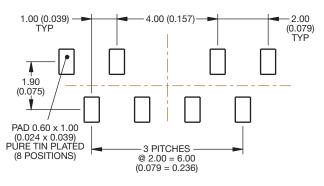




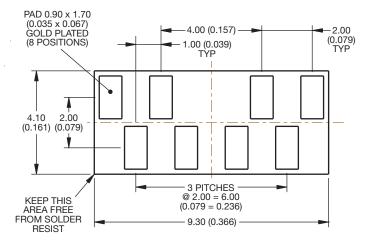




SMT PCB FOOTPRINT



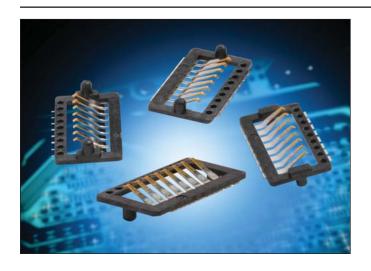
MATING PCB FOOTPRINT





9258 Ultra Low Profile Stacker





GENERAL DESCRIPTION

The SOLO series 9258 is a one-piece connector used to connect two PCBs in a cost effective manner.

This connector is a 1.0mm pitch available in an 8 position with stack heights of 0.40mm and 0.80mm. It is available with or without location bosses.

This connector is designed for PCB surface mounting and is supplied in tape and reel packaging. Gold plated pads on the mating PCB or suitable flex circuits provide connection between the boards.

APPLICATIONS

Suitable applications include:

- Mobile phones
- Handheld scanners
- Portable medical devices
- Display interface

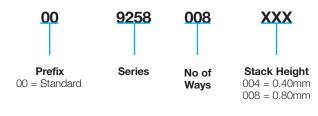
KEY FEATURES AND BENEFITS

Single piece connector – no mating half connector required to connect two boards together which means:

- · Reduced assembly time
- Only one part to purchase and stock
- Due to the unique contact design, the mating device does not have to be parallel
- Extremely robust when it comes to shock and vibration



HOW TO ORDER





Pure Tin Tail



PCB Location Bosses

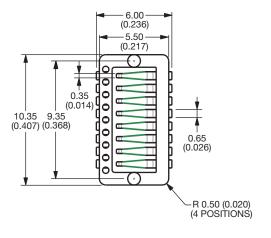
- 1 = With Mating PCB Location Bosses (top side)
- 2 = Without PCB Location Bosses
- 3 = With SMT PCB Location Bosses (bottom side)
- 4 = With SMT and Mating PCB Location Bosses (top and bottom sides)

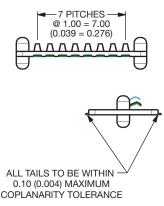
9258 Ultra Low Profile Stacker

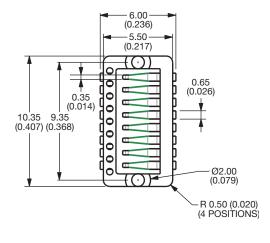


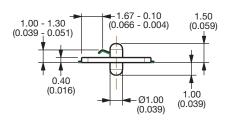
0.4mm Ultra Low Profile Stacker

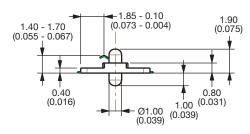
0.8mm Ultra Low Profile Stacker





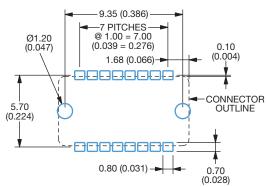


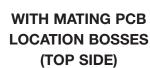


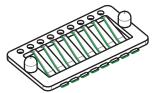


PROPOSED SMT PCB LAYOUT

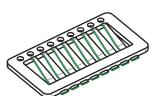
ALL PADS PURE TIN PLATE



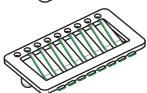




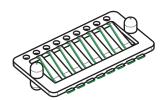
WITHOUT PCB LOCATION BOSSES



WITH SMT PCB LOCATION BOSSES (BOTTOM SIDE)

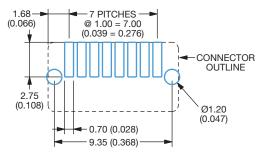


WITH PCB AND SMT LOCATION BOSSES



PROPOSED MATING PCB LAYOUT

ALL PADS GOLD PLATE









GENERAL DESCRIPTION

The 9157 series was specifically designed for portable equipment.

AVX now offers this two-part system as a standard product. The fixed SMT socket is designed to be housed within the confined dimensional constraints of the portable device.

The plug/cover connector has sprung contacts and is designed for termination to accessory equipment. The connector is designed to house fifteen signal contacts on a 1mm pitch rated at 1.5A. There is the option to include a switching RF coax.

A cradle SMT plug connector for docking applications is also available as standard and has the option of including a SMT RF coax.

Whatever your requirements, the 9157 series can also be customized to suit your application.

APPLICATIONS

Suitable applications include:

- Mobile Phones
- PDA
- Medical
- Docking/Charging for any portable device

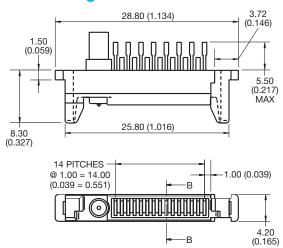
KEY FEATURES AND BENEFITS

- Patented 20° angled face on the socket gives self-cleaning face when mated with plug.
- Metal Latching area integral to socket which saves PCB real estate.
- Integral to socket is a mechanical 50Ω switching coax for SMT termination.
- Single sprung plug contact design gives ten thousand mating cycles and cleaning/wiping action.
- Customer has option to terminate own RF coax using AVX custom tooling: 06-9157-7116-01-000.
- SMT plug has unique location pyramids that give positive alignment to portable device, and assist blind mating.
- RoHS Compliant.

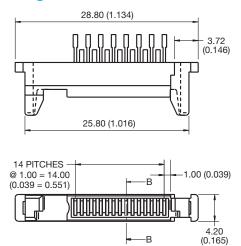




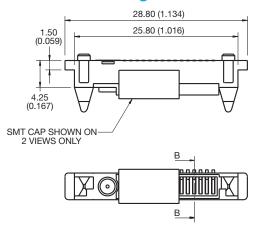
Plug Wire with Coax



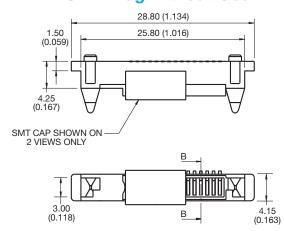
Plug Wire without Coax

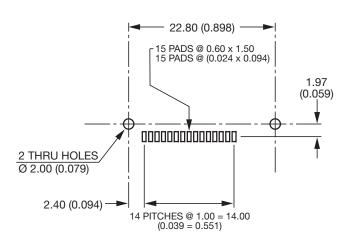


SMT Plug with Coax



SMT Plug without Coax





22.80 (0.898)

SUGGESTED PCB LAYOUT

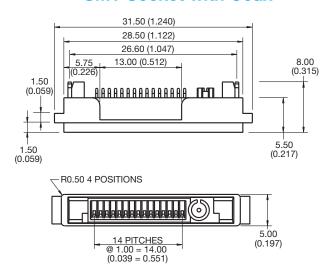
SUGGESTED PCB LAYOUT



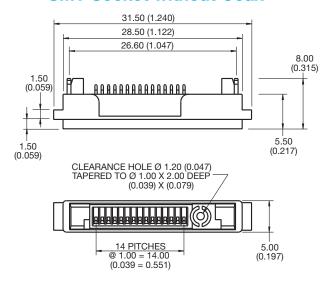
Ø 1.20 (0.047) PAD



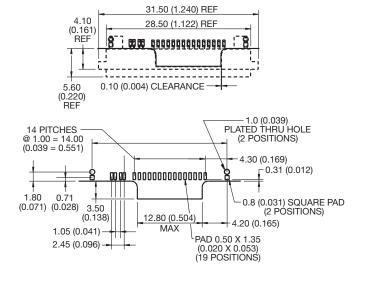
SMT Socket with Coax

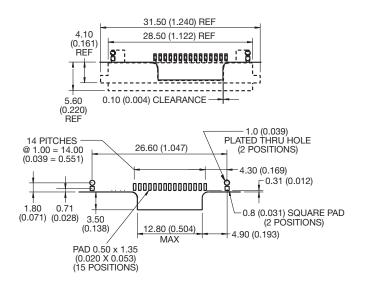


SMT Socket without Coax

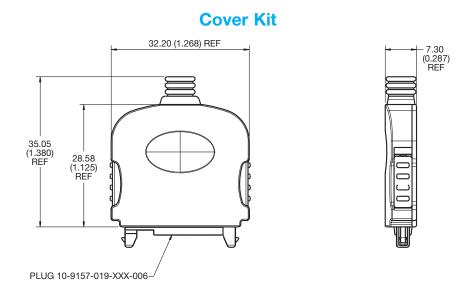


SMT PAD LAYOUT

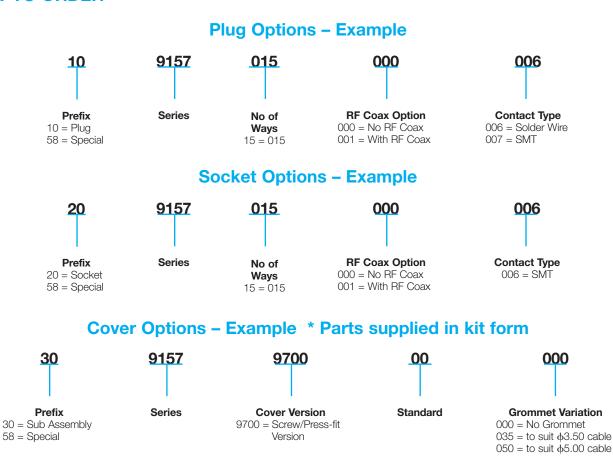








HOW TO ORDER



Patent: 2276285 5540599

Note: Application tooling to terminate coax cable 06-9157-7116-01-000.



9157 MOBO® 19 Way I/O Connector





GENERAL DESCRIPTION

Based on our standard 15 way 9157 I/O family, AVX has now released a family 19 way devices. This range includes a SMT 90 degree plug, a wire socket version that is used with the standard 9157 cover and a SMT socket for charging applications.

Options with the 90 degree SMT socket include the sealing of the connector contacts and the connector to the housing up to IP67. There is also an option to have an EMLB (early mate, late break) on pins 1 and 19.

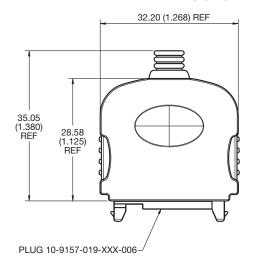
To achieve the seal to the device housing, it may be necessary to customize the device housing design.

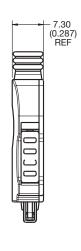
On the SMT 90 degree version, we also have the capability of an integrated DC jack, enabling both the DC jack and the 19 way cover to be plugged in at the same time.

AVAILABLE DEVICES:

10 9157 019 000 006 10 9157 019 000 007 20 9157 019 000 006 30 9157 97 XX 00 000 Plug wire version SMT charging version 90 degree SMT socket Cover options see page 39

Cover Kit

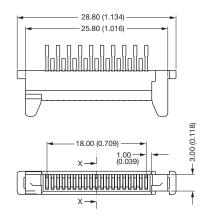




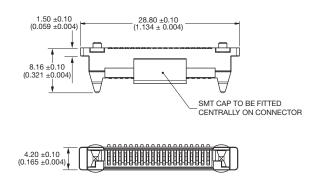
9157 MOBO® 19 Way I/O Connector



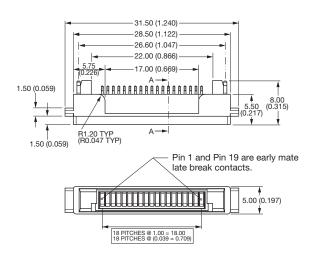
Plug Wire



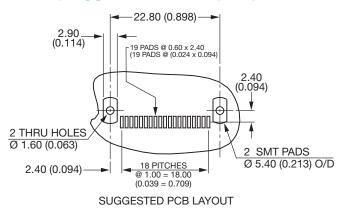
SMT Plug



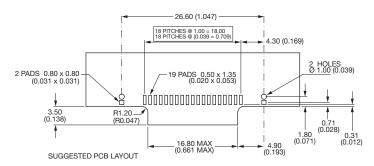
SMT Socket



SMT Plug (Suggested PCB Layout)



SMT Socket (Suggested PCB Layout)





9257 Reduced Size I/O Connector





GENERAL DESCRIPTION

An I/O interconnect system designed for portable equipment.

AVX offers this plug and socket reduced size system as a standard product. The fixed SMT socket is designed to be mounted on a PCB and housed within a portable device. The plug is designed for cable termination with options of single and double sided contacts and customizing the overmold cover or parts can be supplied as connector only for sub contract termination. The socket connector houses 16 contacts in two rows on 1.25mm pitch with a rating of 1 amp per contact. Both connectors are RoHS compliant.

APPLICATIONS

Suitable applications include:

- Cellular Phones
- Handheld Devices
- Industrial Modules
- Medical Electronics

KEY FEATURES AND BENEFITS

- No latching is required due to the click design of the contacts.
- Optional customization of the overmold cover.
- Options of single row (8 way) or dual row (16 way) plug connector.
- Compact size to optimize PCB real estate.
- Metal outer cover provides integrated PCB location and solder tab.
- Positive alignment and orientation of the plug and socket.
- 5K mating cycles and 1 amp rated.

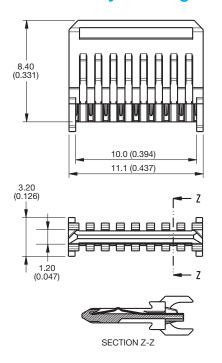


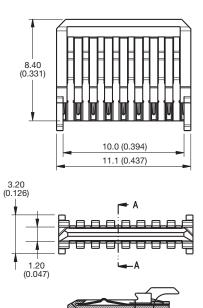
9257 Reduced Size I/O Connector



Single Sided 8 Way I/O Plug Connector

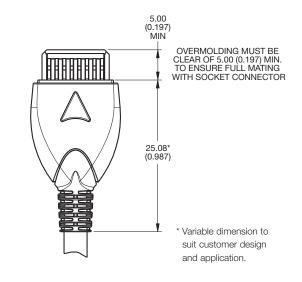
Dual Sided 16 Way I/O Plug Connector





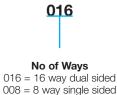
SECTION A-A

Suggested Overmolding for Plug Connector



HOW TO ORDER









Notes:

- 1. All dimensions are for reference only unless toleranced.
- 2. For full product specification refer to AVX spec 201-01-089.
- 3. Parts packed in tube with 50 parts per tube.

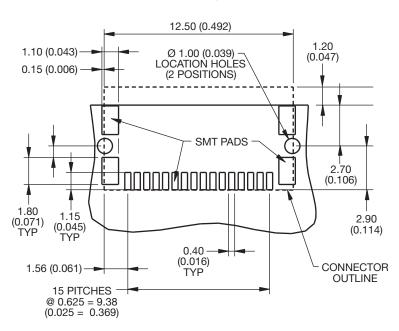


9257 Reduced Size I/O Connector



16 Position I/O Socket POLARIZATION : **CHAMFER** SOLDER BRACKET/SHIELD 12.50 (0.492) 6.75 (0.266) -(0.020)3.00 SECTION Z - Z (0.118)0.25 (0.010) TYP 0.80 **FRONT VIEW** (0.031) TYP -3.90 (0.154)**REAR VIEW END VIEW LOCATION PEGS**

PCB Layout



HOW TO ORDER



Packing Details	
Reel Qty.	1100
Pack Qty.	5500

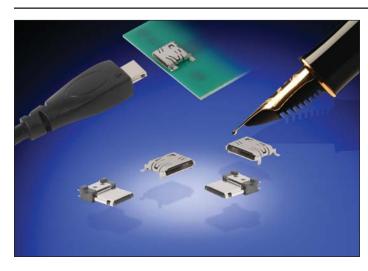
Notes:

- 1. 16 Way I/O Socket.
- 2. For full product specification refer to AVX spec 201-01-089.
- 3. General tolerance ±0.20 (0.008) unless otherwise stated.
- 4. SMT feet within 0.13 (0.005) coplanarity.









GENERAL DESCRIPTION

AVX offers the 12 way mini I/O connector as a standard product. The fixed SMT socket is designed to be mounted on a PCB and housed within a portable device. The plug is designed for cable termination with options of single and double sided contacts. Parts can be supplied as connectors only for sub contract termination, or with a custom overmold cover. The socket connector houses 12 contacts in a single row on 0.50mm pitch.

APPLICATIONS

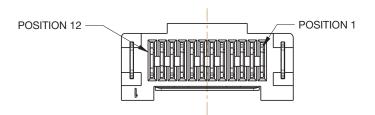
- Medical Electronics
- Cellular Phones
- Industrial Modules
- · Hand Held Devices

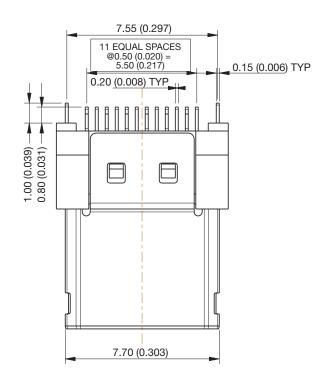
KEY FEATURES AND BENEFITS

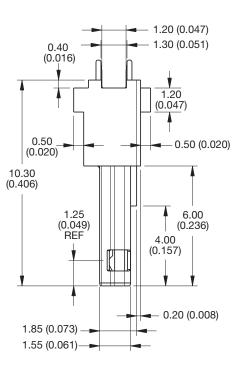
- No latching required due to the click design of the contacts.
- Optional customization of the overmold cover.
- Compact size to optimize PCB real estate.
- Metal outer cover provides integrated PCB location and solder tab.
- Positive alignment and orientation of the plug and socket.

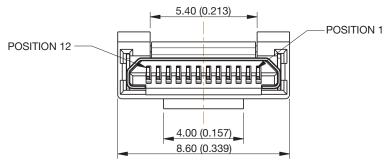


9257 STANDARD 12 WAY MINI I/O PLUG







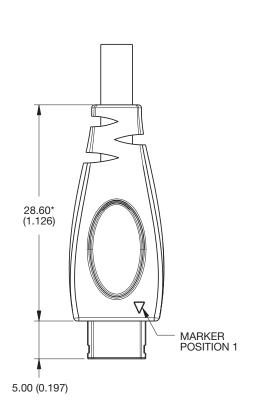


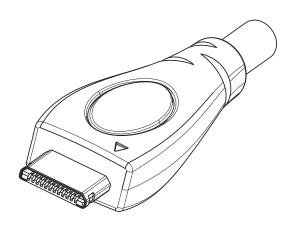
HOW TO ORDER





SUGGESTED OVERMOLDING FOR PLUG CONNECTOR





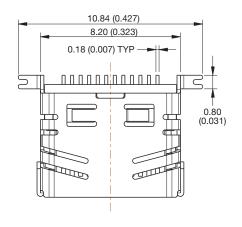


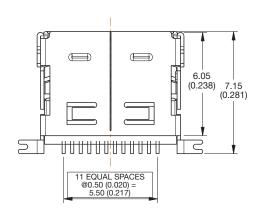


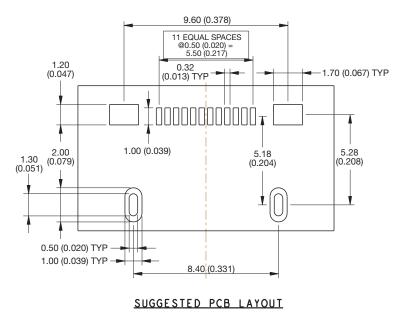
DIMENSION MARKED WITH A * ARE VARIABLE DIMENSION TO SUIT CUSTOMER DESIGN AND APPLICATION

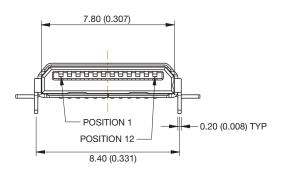


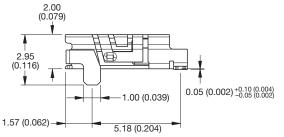
9257 STANDARD 12 WAY MINI I/O SOCKET











HOW TO ORDER



AMERICAS

AVX Greenville, SC Tel: 864-967-2150

AVX Northwest, WA Tel: 360-699-8746

AVX Midwest, IN Tel: 317-861-9184

AVX Mid/Pacific, CA Tel: 408-988-4900

AVX Northeast, MA Tel: 617-479-0345

AVX Southwest, CA Tel: 949-859-9509

AVX Canada Tel: 905-238-3151

AVX South America Tel: +55-11-4688-1960

EUROPE

AVX Limited, England Tel: +44-1276-697000

AVX S.A.S., France Tel: +33-1-69-18-46-00

AVX GmbH, Germany Tel: +49-0811-95949-0

AVX SRL, Italy Tel: +39-02-614-571

AVX Czech Republic Tel: +420-57-57-57-521

AVX/ELCO UK Tel: +44-1638-675000

ELCO Europe GmbH Tel: +49-2741-299-0

AVX S.A., Spain Tel: +34-91-63-97-197

AVX Benelux Tel: +31-187-489-337

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AVX/Kyocera (S) Pte Ltd., Singapore

Tel: +65-6286-7555

AVX/Kyocera, Asia, Ltd., Hong Kong

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KED Hong Kong Ltd. Beijing

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KED Taiwan Ltd. Tel: +886-2-2950-0268

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Authorized Distribution Brand:

























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