

# Standard I/O, 15 Position

XX-9157

**AVX** INTERCONNECT  
A KYOCERA GROUP COMPANY



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

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

## 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.

## ELECTRICAL

- Current Rating: 1.5 Amps / Contact
- Voltage Rating: 125 VAC

## ENVIRONMENTAL

- Operating Temperature: -55°C to +125°C

## MECHANICAL

- Insulator Material: Glass-Filled Nylon 46; UL94 V-O
- Contact Material: Beryllium Copper (plug) Phosphor Bronze (socket)
- Plating: Gold over Nickel
- Durability: 10,000 Cycles

## HOW TO ORDER

### Plug Options – Example

XX	9157	015	00X
Prefix	Series	No of Ways	RF Coax Option
10 = Plug 58 = Special	15 = 015	000 = No RF Coax 001 = With RF Coax	

00X

Contact Type

Code	Type	Contact Plating
006	Wire	Nickel, Gold Nose, Pure Tin Tail
007	SMT	Nickel, Gold Nose, Pure Tin Tail

### PACKING DETAILS

Type	Size	Description
Wire	580	Tube
SMT	300	Tape & Reel

20	9157	015	00X	006
Prefix	Series	No of Ways	RF Coax Option	Contact Type
20 = Socket 58 = Special	15 = 015	000 = No RF Coax 001 = With RF Coax		006 = SMT

### Socket Options – Example

## Cover Options – Example

30	9157	9700	00	0XX
Prefix	Series	Cover Kit Press and Screw Assembly	Standard	Grommet Variation
10 = Cover 58 = Special	15 = 9700	1 = Cover Side 1 = Cover Body 2 = Latch Button 2 = Metal Latch 2 = Fixing Screw		000 = No Grommet 035 = 3.5mm Grommet 050 = 5.0mm Grommet

Code	Description	Qty
9700	Cover Side	1
	Cover Body	1
	Latch Button	2
	Metal Latch	2
	Fixing Screw	2

### PACKING DETAILS

Kit to be ordered in  
multiples of 580

Item	Packing	Parts packed in bags of
Cover Side	Pack Parts in Bags Qty as Column 3	580
Cover Body		580
Latch Button		1160
Metal Latch		1160
Grommet		580
Fixing Screw		1160 When Required



Patent:  
2276285  
5540599

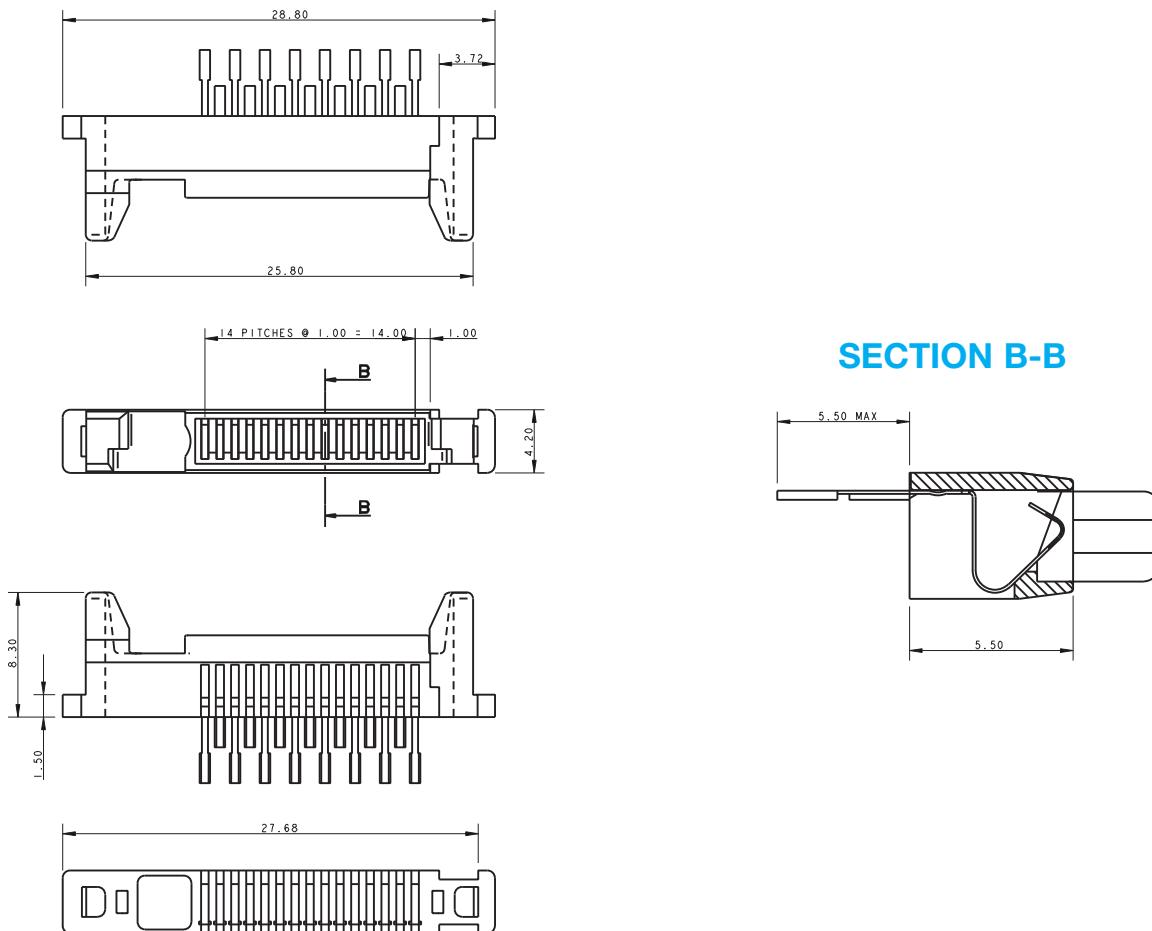
**AVX**

# Standard I/O, 15 Position

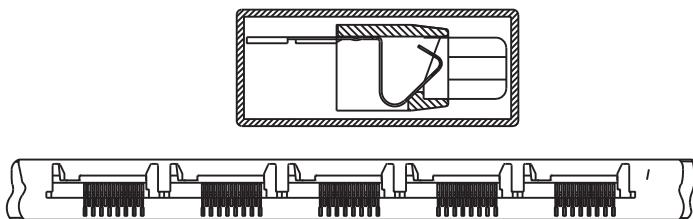
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## 9157 PLUG WIRE WITHOUT COAX



## PACKING DETAIL



### NOTES:

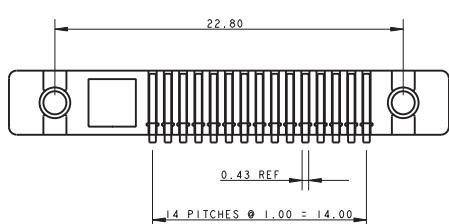
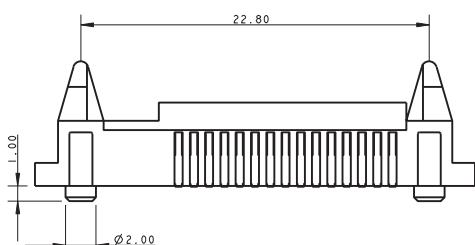
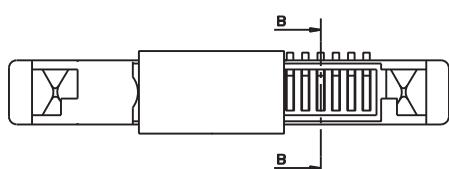
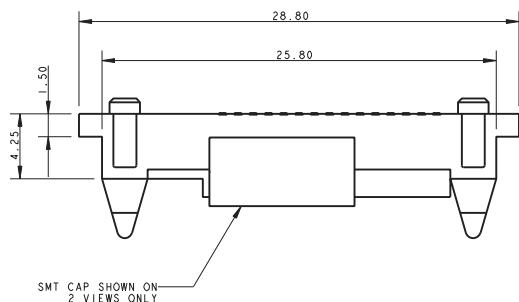
1. ALL DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS.
2. PACKED IN TUBES, 20 PIECES PER TUBE.
3. MINIMUM ORDER QUANTITY 580 PIECES, THEREAFTER TO BE SUPPLIED IN MULTIPLES OF 580.
4. FOR FULL PRODUCT INFORMATION REFER TO ELCO SPECIFICATION 201-01-079.

# Standard I/O, 15 Position

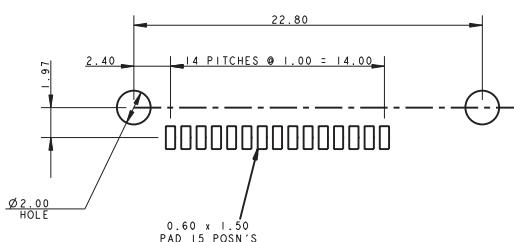
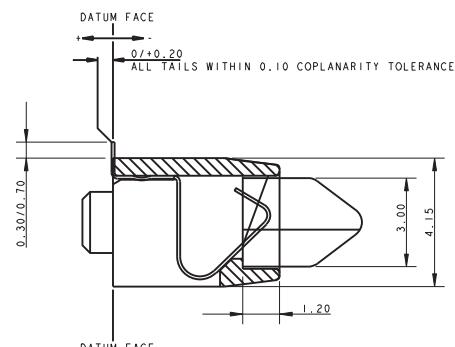
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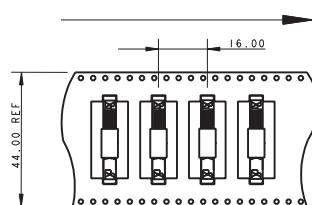
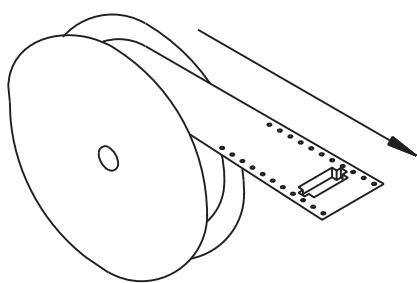
## 9157 PLUG SMT WITHOUT COAX



## SECTION B-B



## PACKING DETAIL



### NOTES:

1. ALL DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS.
2. PACKED IN TAPE AND REEL, 300 PIECES PER REEL.
3. FOR FULL PRODUCT INFORMATION REFER TO ELCO SPECIFICATION 201-01-079.

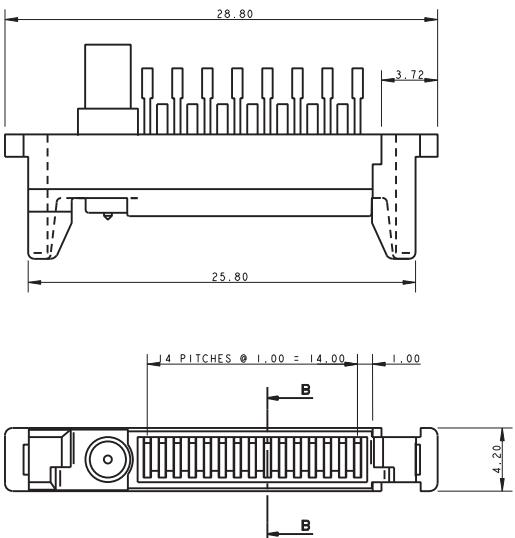
**AVX**

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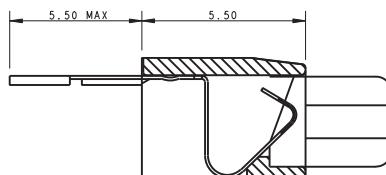
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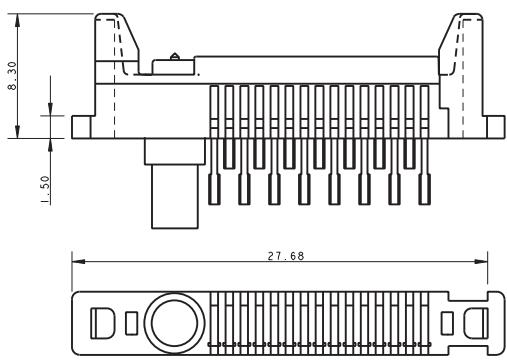
## 9157 PLUG WIRE WITH COAX



## SECTION B-B



## CRIMPING DETAILS



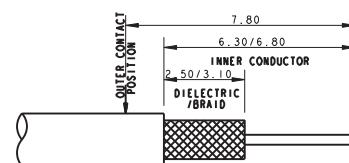
CRIMP SLEEVE  
SUPPLIED LOOSE 580 PER BAG



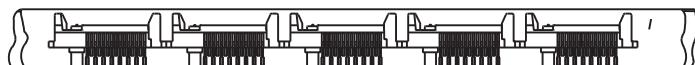
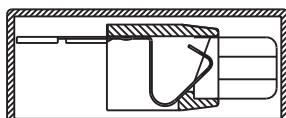
CRIMP BEAD  
SUPPLIED LOOSE 580 PER BAG



INNER CONTACT  
SUPPLIED LOOSE 580 PER BAG



## PACKING DETAIL



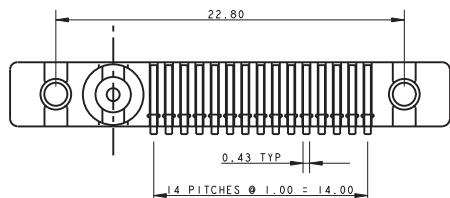
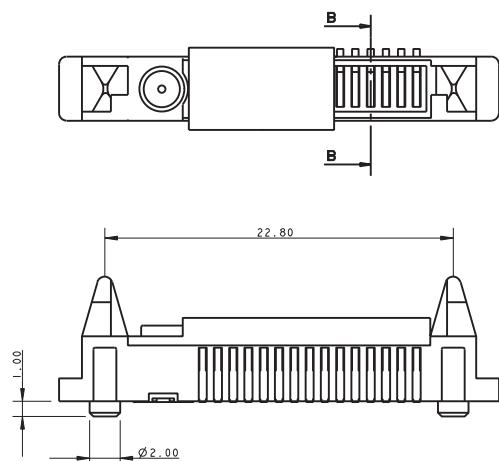
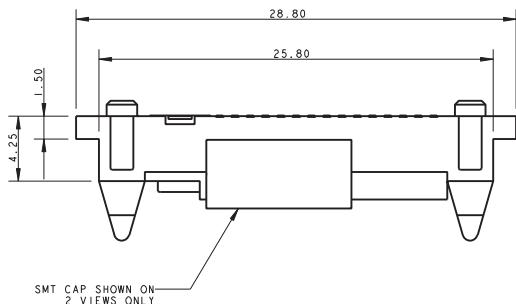
### NOTES:

1. TOOL TO CRIMP BARREL ELECO PART NUMBER 06-9157-7117-01-000.
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3. PACKED IN TUBES, 20 PIECES PER TUBE.
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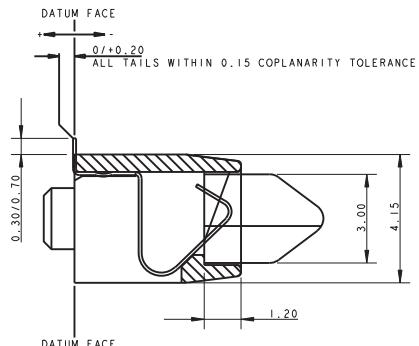
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### 9157 PLUG SMT WITH COAX

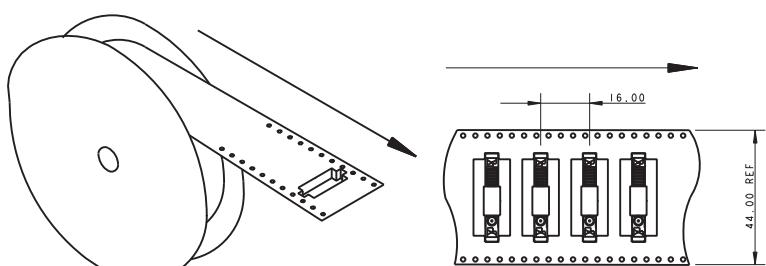
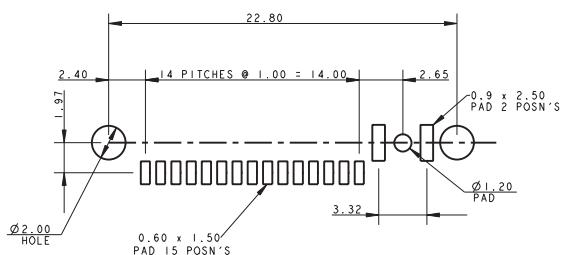


### SECTION B-B



### PACKING DETAIL

#### PCB LAYOUT



#### NOTES:

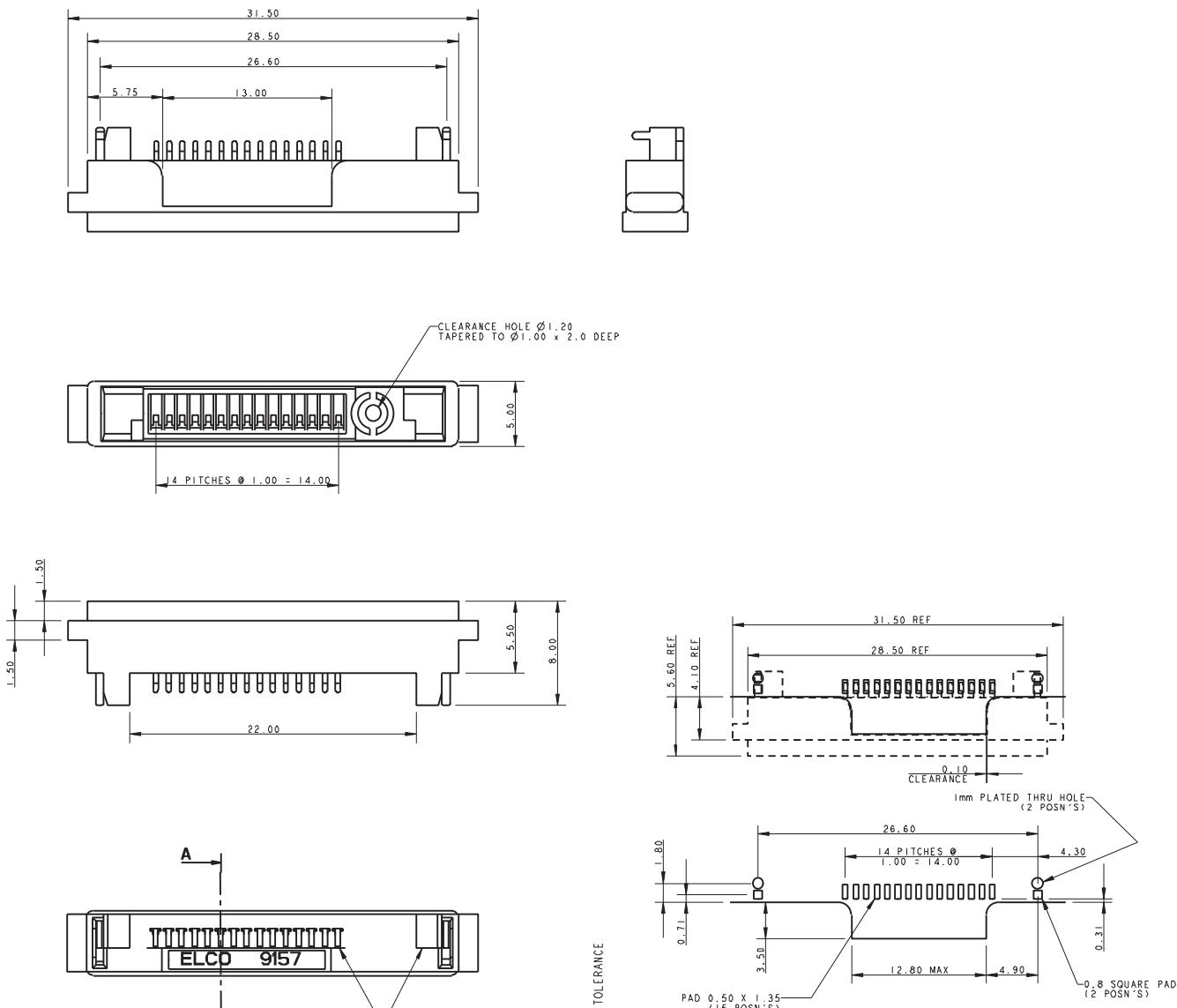
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## 9157 SOCKET WITHOUT COAX



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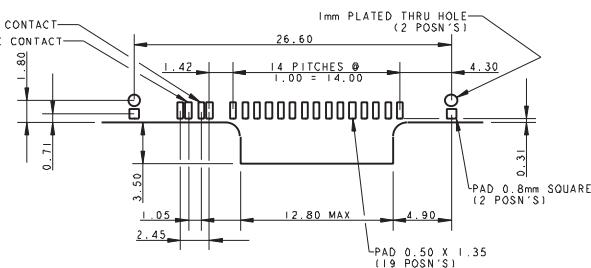
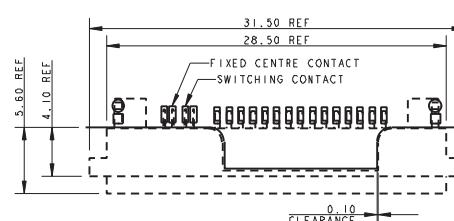
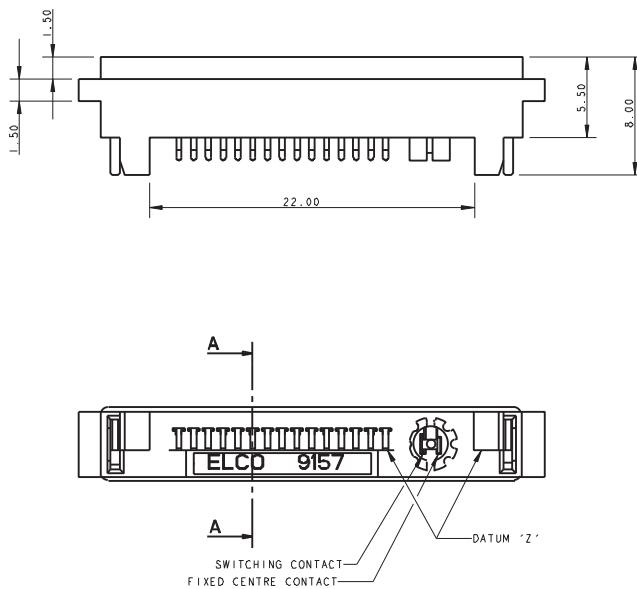
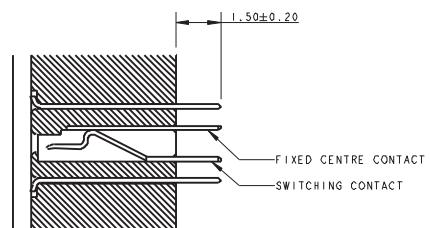
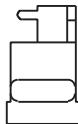
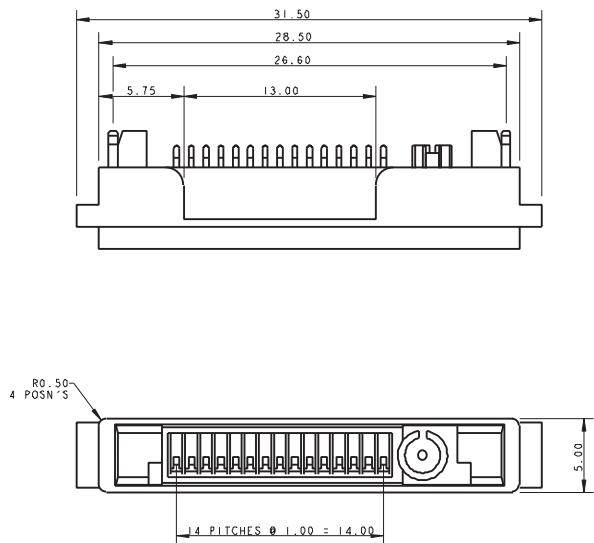
## SECTION A-A

# Standard I/O, 15 Position

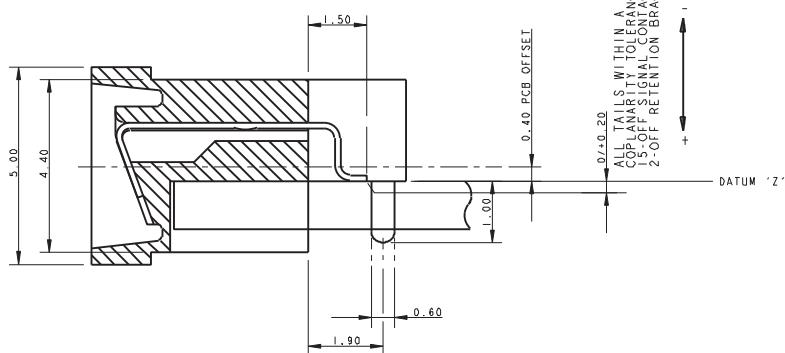
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## 9157 SOCKET WITH COAX



## RECOMMENDED PCB LAYOUT



## SECTION A-A

**AVX**

### NOTES:

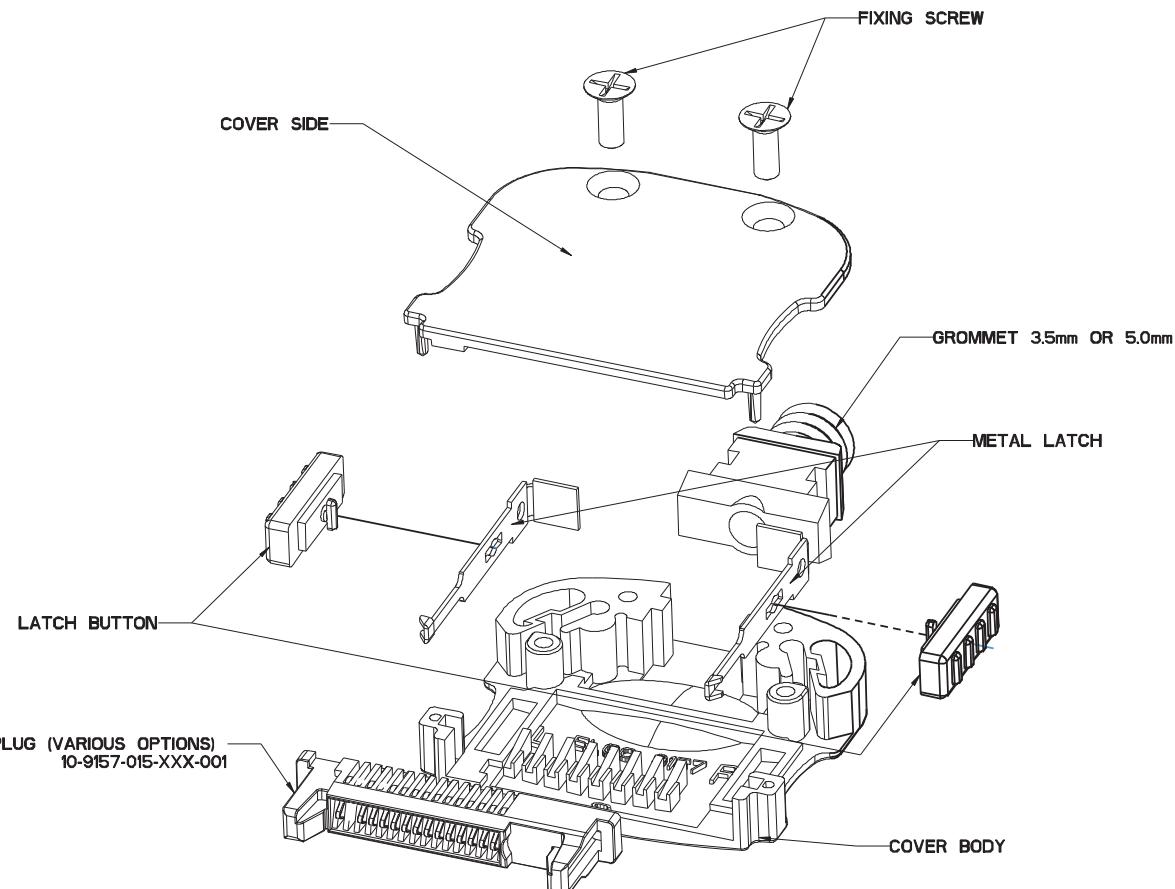
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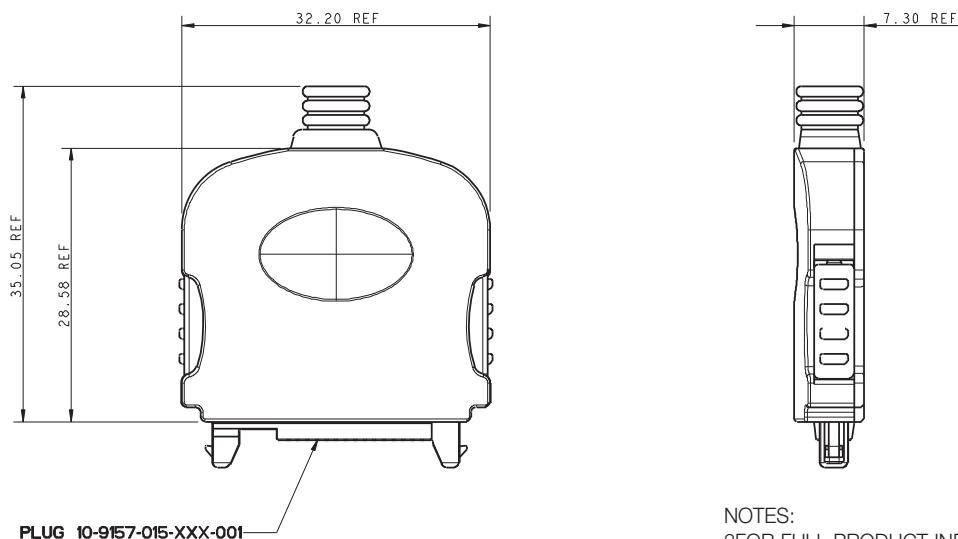
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**AVX** INTERCONNECT  
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**30-9157-9700-00-XXX**  
**PRESS AND SCREW VERSION**



**COVER KIT SHOWN FULL ASSEMBLED  
WITH PLUG ASSEMBLY 10-91557-015-XXX-001**



NOTES:  
3FOR FULL PRODUCT INFORMATION REFER TO  
ELCO SPECIFICATION 201-01-079.