

I/O CONNECTORS

Reduced Size I/O, 16 Position XX-9257



An I/O interconnect system designed for portable equipment.

KYOCERA 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 con- tact. Both connectors are RoHS compliant.

APPLICATIONS

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

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.

ELECTRICAL

- Current Rating: 1 Amp / Contact
- Voltage Rating: 125 VAC

ENVIRONMENTAL

- Operating Temperature: -55°C to +85°C

MECHANICAL

- Insulator Material: Nylon 46; UL94 V-O
- Contact Material: Beryllium Copper
- Plating: Gold over Nickel
- Durability: 5,000 Cycles

HOW TO ORDER

Plug Options – Example

10	9257	0XX	001	003	PACKING
Prefix	Series	No of Ways	Contact	Plating Option	Parts packed in tubes 50 per tube
10 = Plug		008 = 8 Way – One side of the moulding loaded with contacts 016 = 16 Way – Both sides of the moulding loaded with contacts	001 = Solder Bucket	003 = 0.8µm Selective Gold, Pure Tin Tail	



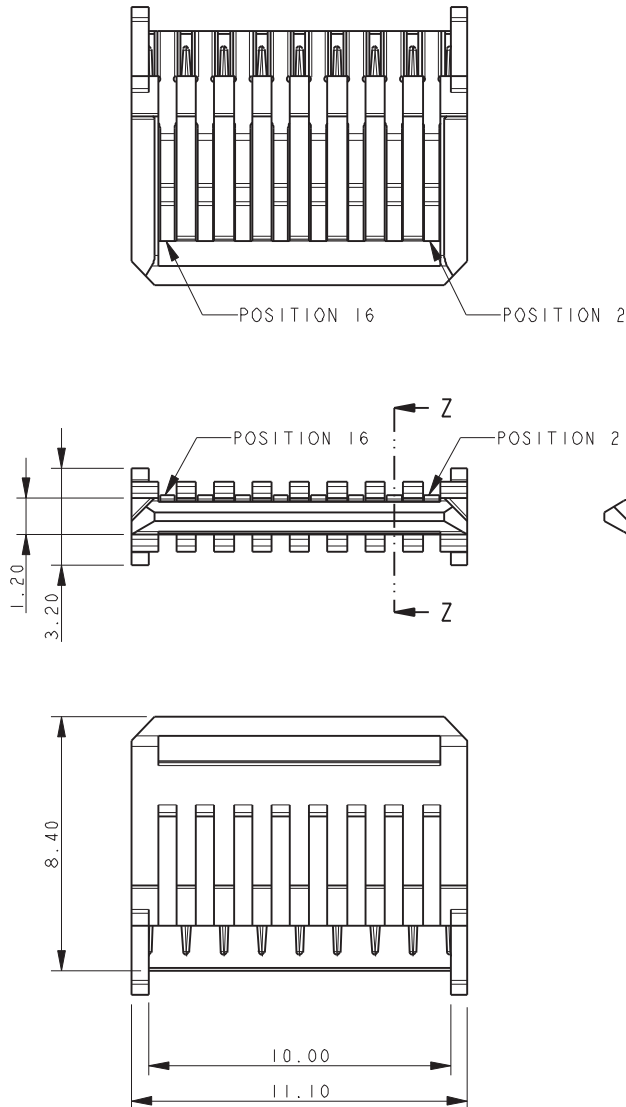
Socket Options – Example

20	9257	016	001	01	3
Prefix	Series	No of Ways	Contact	Solder Bracket	Plating Option
20 = Socket		016 = 16	001 = SMT Termination	001 = Solder Bracket with Location Pegs	3 = 0.8µm Selective Gold, Tin Tail

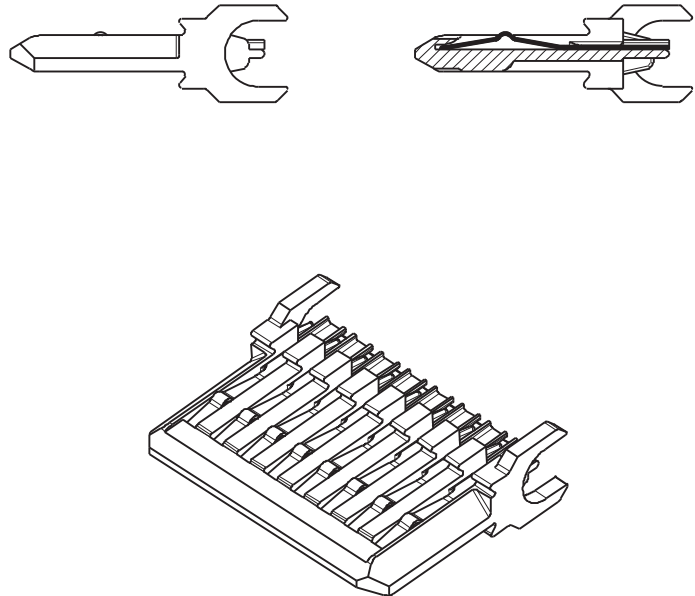
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9157 SOCKET WITH COAX



SECTION Z-Z



50 PARTS PER TUBE



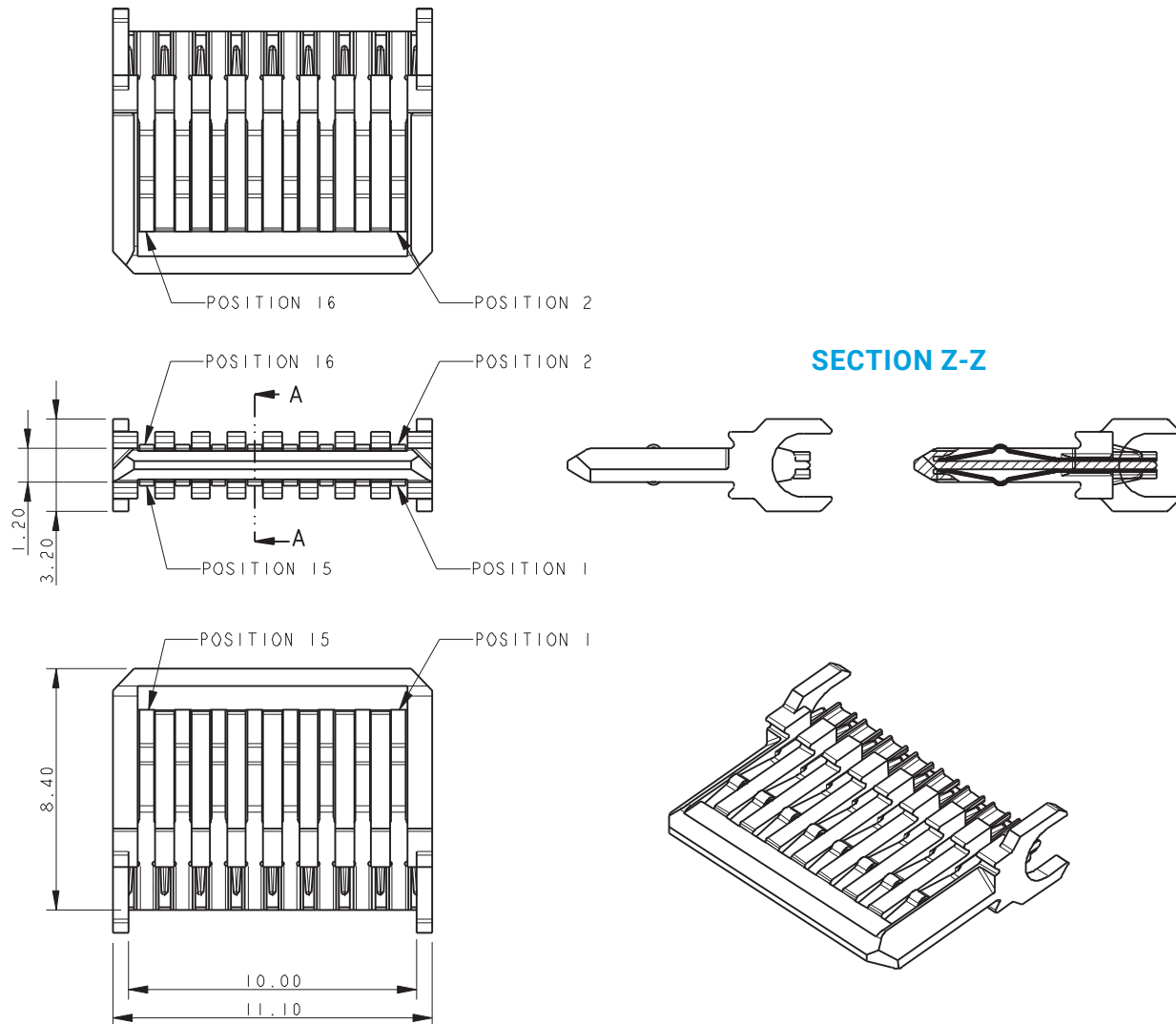
NOTES:

1. ALL DIMENSIONS ARE FOR REFERENCE ONLY UNLESS TOLERANCED.
2. FOR FULL PRODUCT SPECIFICATION REFER TO ELCO SPECIFICATION 201-01-089.
3. POSITIONS 2, 4, 6 ... 16 USED, POSITION 1, 3, 5 ... UNUSED.

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DOUBLE SIDED 16 WAY I/O PLUG CONNECTOR



50 PARTS PER TUBE



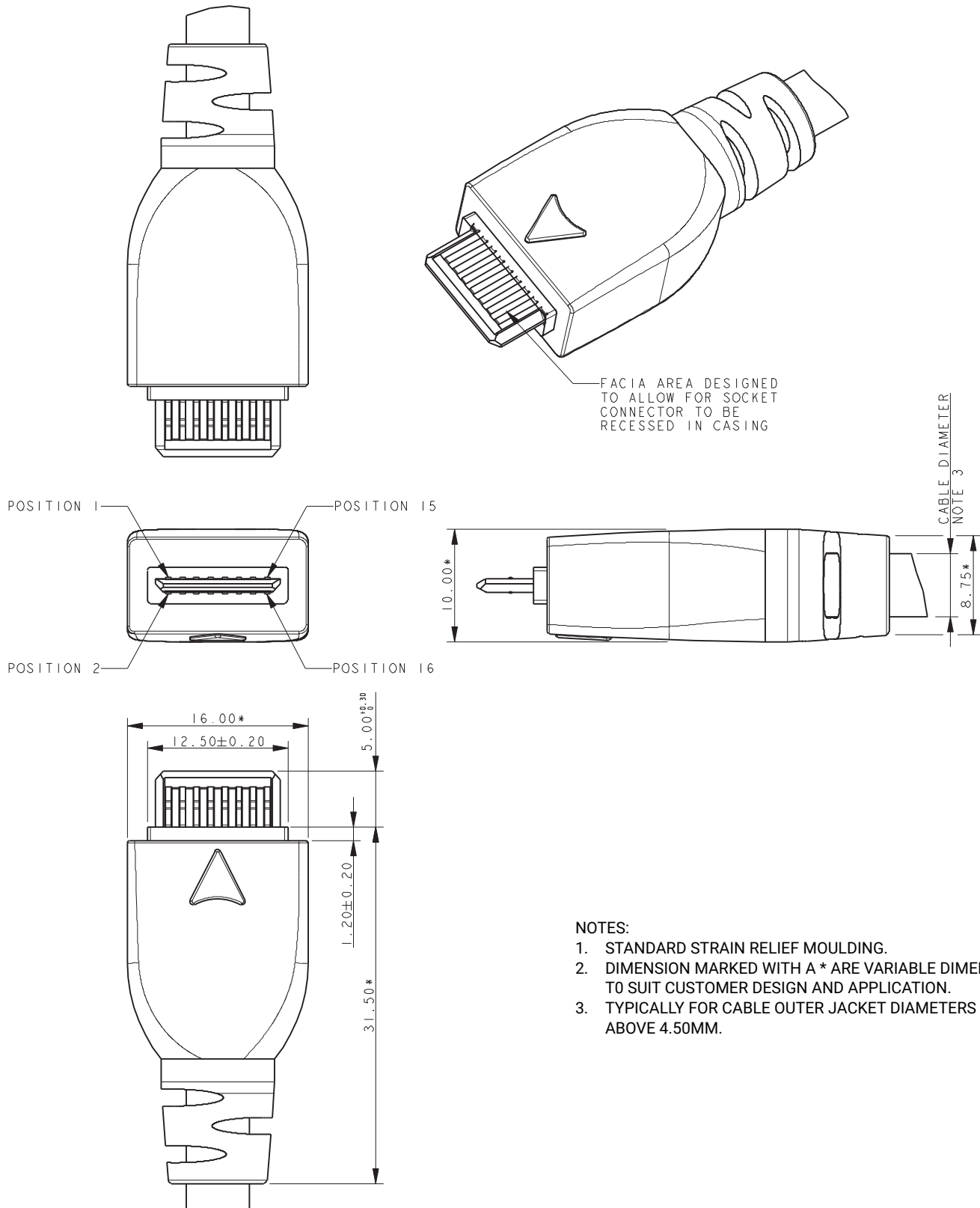
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3. POSITIONS 2, 4, 6 ... 16 USED, POSITION 1, 3, 5 ... UNUSED.

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SUGGESTED OVERMOULDING FOR PLUG CONNECTOR (16 WAY – STANDARD STYLE)



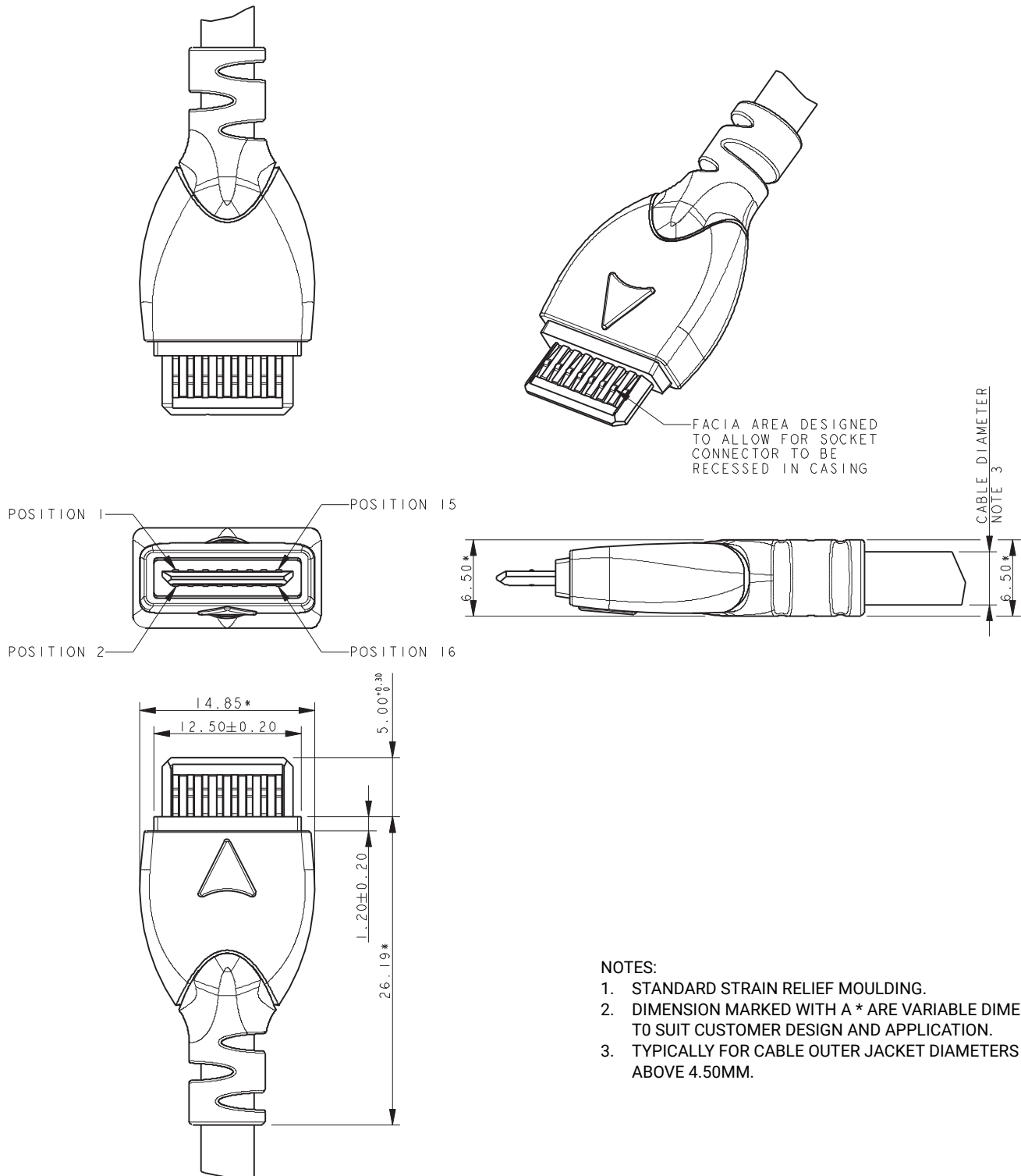
NOTES:

1. STANDARD STRAIN RELIEF MOULDING.
2. DIMENSION MARKED WITH A * ARE VARIABLE DIMENSION TO SUIT CUSTOMER DESIGN AND APPLICATION.
3. TYPICALLY FOR CABLE OUTER JACKET DIAMETERS ABOVE 4.50MM.

I/O CONNECTORS

Reduced Size I/O, 16 Position XX-9257

SUGGESTED OVERMOULDING FOR PLUG CONNECTOR (16 WAY - SLIM STYLE)



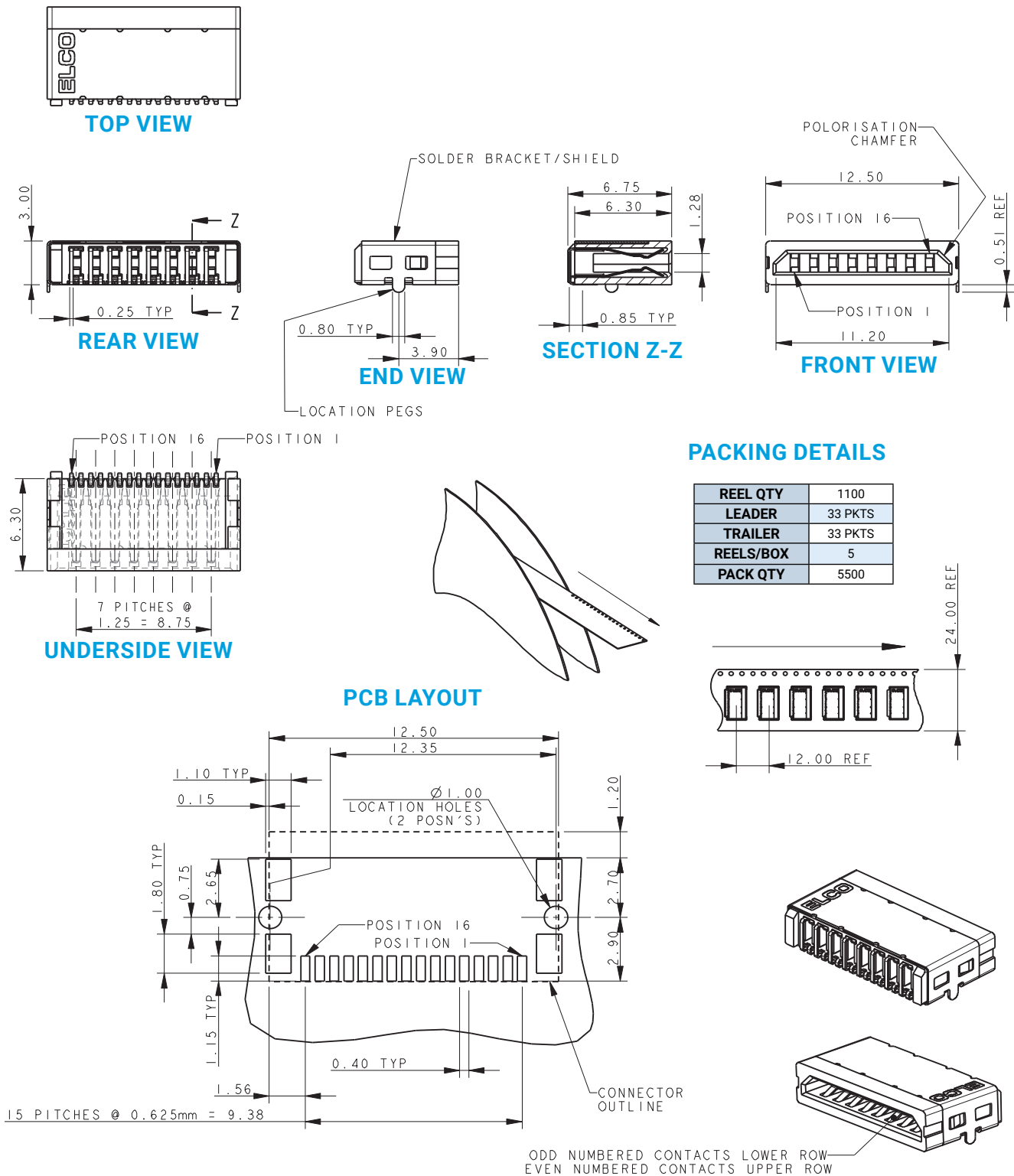
NOTES:

1. STANDARD STRAIN RELIEF MOULDING.
2. DIMENSION MARKED WITH A * ARE VARIABLE DIMENSION TO SUIT CUSTOMER DESIGN AND APPLICATION.
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16 WAY SOCKET CONNECTOR



NOTES:

1. PROPOSAL FOR 16 WAY I/O SOCKET.
2. FOR FULL PRODUCT SPECIFICATION REFER TO ELECO SPEC 201-01-089.
3. GENERAL TOLERANCE $\pm 0.20\text{MM}$ UNLESS OTHERWISE STATED.
4. SMT FEET WITHIN $\pm 0.10\text{MM}$ COPLANARITY.

Mouser Electronics

Authorized Distributor

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KYOCERA AVX:

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