General Description





The 9159 series of Board-to-Board interconnect system allows two PCB's to be mated end-to-end creating strips of LED lighting. Designed specifically for the unique Solid State Lighting (SSL) market requiring coplanar (horizontal-to-horizontal) PCB mating with a 5 Amp current rating in the smallest package available. These single sided SMT connectors are perfect for both FR4 and metal boards where you need to butt the boards up together to minimize separation. Availability of both white and black insulation colors make them perfect for lighting as well as industrial applications. With sizes from 2p-6p, these high reliability connectors boast gold plated beryllium copper receptacle contacts for harsh environments.

APPLICATIONS

- Coplanar PCB mating in SSL products
- LED linear lighting strips
- Application Notes: refer to 201-01-123

FEATURES AND BENEFITS

- · Single sided SMT: supports FR4 and metal PCB's
- · 5 Amp current rating: exceeds general market needs
- 5.5mm mated width: minimizes PCB space to decrease LED pitch
- · Gold plated BeCu spring contacts: reliability for harsh environments
- · Optional retaining clip: provides positive connector mating during vibration
- · Available in white: supports SSL market preferences

ELECTRICAL

- Current Rating: 5 Amps / Contact
- Voltage Rating: 125 VAC

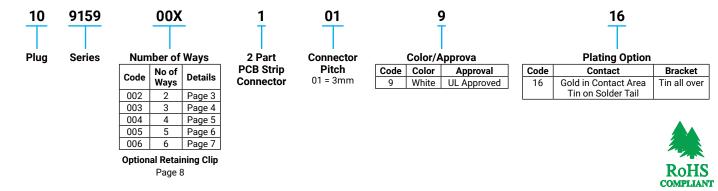
ENVIRONMENTAL

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

MECHANICAL

- Insulator Material: Nylon: VL94VO
- Contact Material: BeCu / Phos Bronze
- Plating: Gold / Tin over Nickel
- · Durability: 10 Cycles

HOW TO ORDER



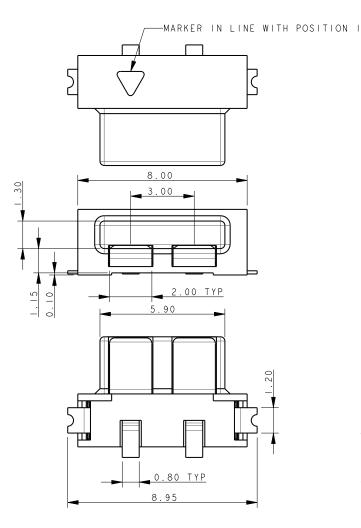
Certification: UL File #E90723

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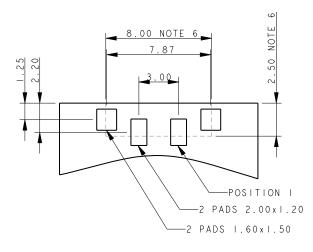


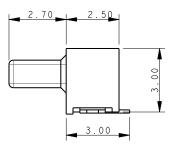
2 Position

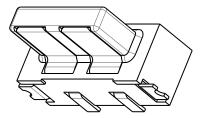
PLUG 2 WAY 2 PART PCB STRIP CONNECTOR



2 WAY PCB BOARD LAYOUT

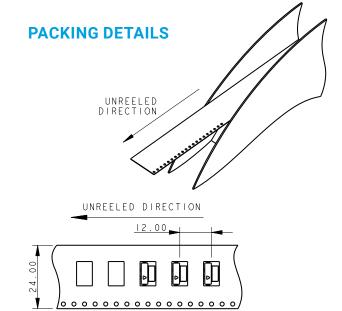






NOTES:

- 1. FOR MORE INFORMATION REFER TO PRODUCT SPEC 201-01-119.
- 2. DIMENSIONS ARE REFERENCE DIMENSIONS UNLESS TOLERANCES.
- 3. INSULATOR MATERIAL: NYLON 46.
- 4. CONTACT MATERIAL: COPPER ALLOY, SELECTIVE GOLD OVER NICKEL TIN PLATED ON TAILS.
- 5. BRACKETS: COPPER ALLOY, TIN PLATED.
- 6. OUTLINE OF CONNECTOR.
- 7. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.
- 8. OPTIONAL RETAINING CLIP, SEE PAGE 8.



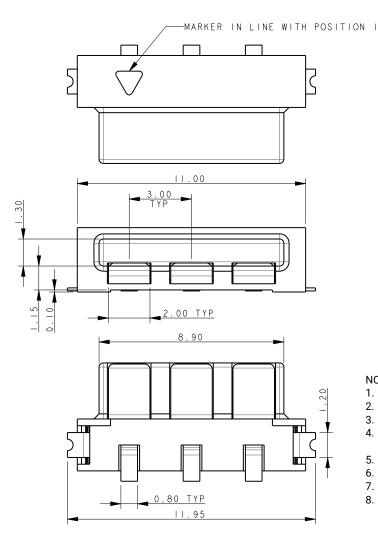
KUDCERA available online at www.avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

Horizontal Plug: BTB

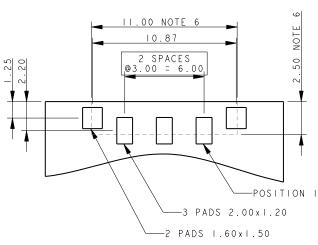


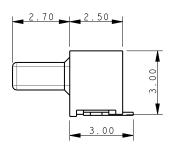
3 Position

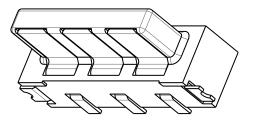
PLUG 3 WAY 2 PART PCB STRIP CONNECTOR



3 WAY PCB BOARD LAYOUT

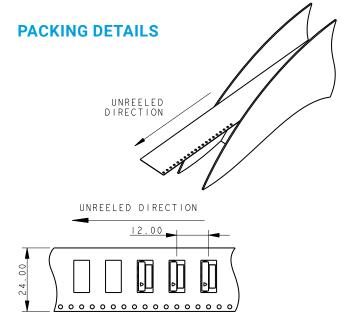






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- 7. PACKING TAPE AND REEL, QUANTITY 1400 PER REEL.
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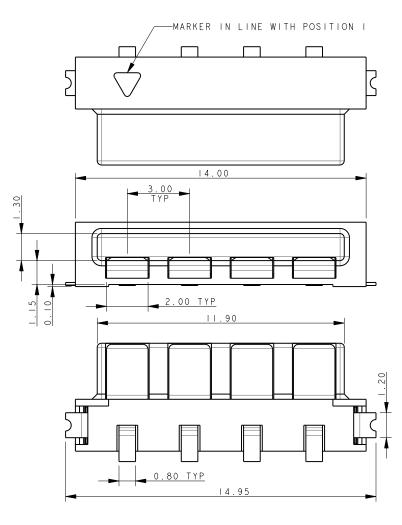


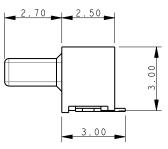
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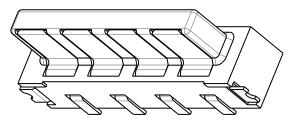


4 Position

PLUG 4 WAY 2 PART PCB STRIP CONNECTOR



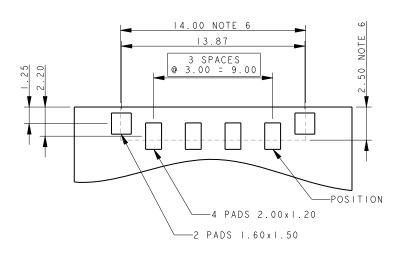


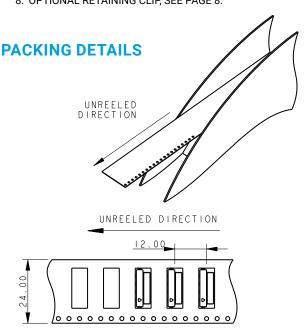


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- 8. OPTIONAL RETAINING CLIP, SEE PAGE 8.

4 WAY PCB BOARD LAYOUT



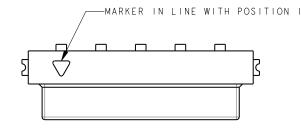


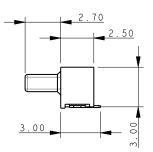
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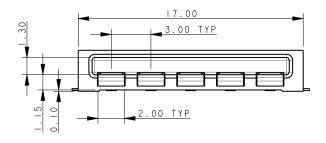


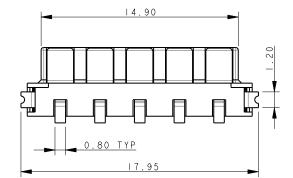
5 Position

PLUG 5 WAY 2 PART PCB STRIP CONNECTOR

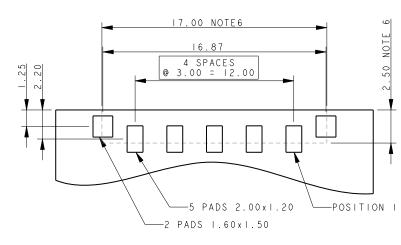






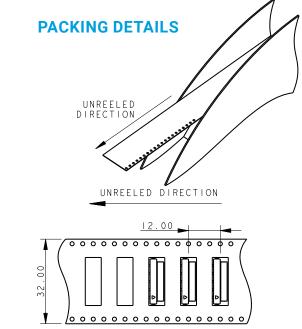


5 WAY PCB BOARD LAYOUT



NOTES:

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- 8. OPTIONAL RETAINING CLIP, SEE PAGE 8.

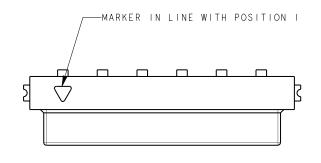


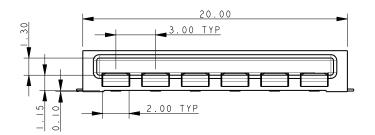
KUCCERA available online at www.avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

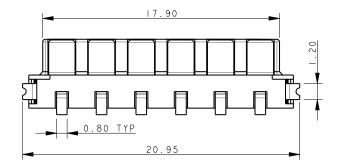


6 Position

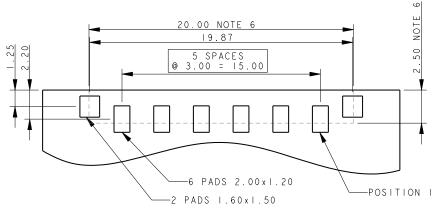
PLUG 6 WAY 2 PART PCB STRIP CONNECTOR

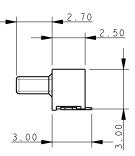


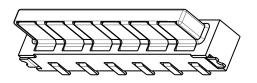




6 WAY PCB BOARD LAYOUT

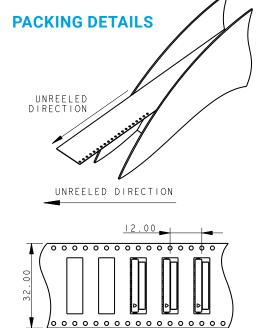






NOTES:

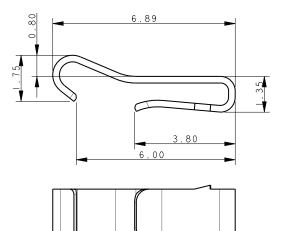
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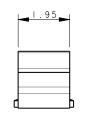


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Accessory Retaining Clip/Plug Assembly/Mated Assembly/Hand Insertion Tool

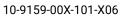
80-9159-4200-00-000 ACCESSORY RETAINING CLIP

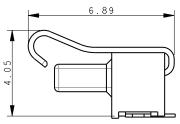






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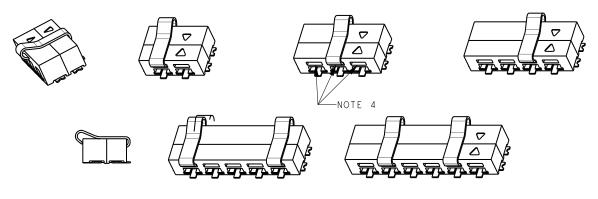






MATED ASSEMBLY – FOR REFERENCE ONLY

10-9159-00X-101-X06 MATED WITH 20-9159-00X-X06



Description	# of Positions	Part Number	UL File #
Horizontal Plug w/pre-installed locking clip	2	58 9159 002 000 015	E90723
Horizontal Plug w/pre-installed locking clip	3	58 9159 003 000 015	E90723
Horizontal Plug w/pre-installed locking clip	4	58 9159 004 000 015	E90723
Horizontal Plug w/pre-installed locking clips	5	58 9159 005 000 015	E90723
Horizontal Plug w/pre-installed locking clips	6	58 9159 006 000 015	E90723

NOTES:

- 1. CLIP TO RETAIN MATED PAIR PLUG AND SOCKET.
- 2. MATERIAL: STAINLESS STEEL.
- 3. TAIL INSERTED INTO SLOT OF 9159 2 PART PLUG (10-9159-00X-101-006). LEADING EDGE CLIPS OVER SOCKET.
- 4. ALL DIMENSIONS SHOWN ARE REFERENCE DIMENSIONS.
- 5. RECOMMENDED 1 CLIP IN 2, 3 AND 4 WAY. 2 CLIPS IN 5 AND 6 WAY. POSITIONS AT CUSTOMER DISCRETION.

Mouser Electronics

Authorized Distributor

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AVX: 589159003000015

Kyocera AVX:

<u>109159002101916</u> <u>809159420000000</u> <u>109159003101916</u> <u>109159004101916</u> <u>109159006101916</u> <u>109159005101916</u> <u>0109159002101111</u> <u>109159002101111</u>