

Vertical SMT Plug

Series 9159



AVX developed the 9159 Series of SMT connectors for co-planar PCB mating for the challenging Solid State Lighting (SSL) market. These connectors needed to be small, low in height, carry up to 3 Amps/contact and then function up to 125C for extended periods. This application has been very unique to the SSL market where PCB's are stacked end-to-end to create linear strip lighting in everything from office to transportation applications where products are exposed to harsh mechanical and environmental environments.

This vertical plug connector opens up the spectrum to include all commercial, industrial and transportation applications requiring perpendicular PCB mating and latching Wire-to-Board cabled sockets with an already proven connector system. With sizes from 2p-6p, these gold plated contacts mate with high spring force beryllium copper receptacle connectors.

APPLICATIONS

- Allows assembly of PCB's at right angles
- Accepts 24-9159 IDC wired/cabled socket
- Reference application notes 201-01-123
- Reference Product Specification 201-01-119

FEATURES AND BENEFITS

- Single sided SMT RoHS solder attachment;
- Centrally located pick & place cap for easy placement
- Gold plated BeCu contact system for high reliability in harsh environments
- Standard color is white with optional black for specific applications

ELECTRICAL

- Current Rating: 3 Amps / Contact
- Voltage Rating: 125 VAC

ENVIRONMENTAL

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

MECHANICAL

- Insulator Material: Nylon: UL94VO
- Contact Material: BeCu / Phos Bronze
- Plating: Gold / Tin over Nickel
- Durability: 10 Cycles

HOW TO ORDER

<p>13</p> <p>Prefix Plug</p> <p>Vertical Mount</p>	<p>9159</p> <p>Series</p>	<p>XXX</p> <p>Number of Ways</p> <table border="1"> <thead> <tr> <th>Code</th> <th>No of Ways</th> <th>Details</th> </tr> </thead> <tbody> <tr> <td>002</td> <td>2</td> <td>Page 19</td> </tr> <tr> <td>003</td> <td>3</td> <td>Page 20</td> </tr> <tr> <td>004</td> <td>4</td> <td>Page 21</td> </tr> <tr> <td>005</td> <td>5</td> <td>Page 22</td> </tr> <tr> <td>006</td> <td>6</td> <td>Page 23</td> </tr> </tbody> </table>	Code	No of Ways	Details	002	2	Page 19	003	3	Page 20	004	4	Page 21	005	5	Page 22	006	6	Page 23	<p>1</p> <p>2 Part PCB Strip Connector</p>	<p>01</p> <p>Connector Pitch</p> <p>01 = 3mm</p>	<p>X</p> <p>Color Options</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Color</th> <th>Availability</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>Black</td> <td>Special Order only</td> </tr> <tr> <td>1</td> <td>White</td> <td>Standard</td> </tr> <tr> <td>8</td> <td>Black</td> <td>UL Approved - Special Order</td> </tr> <tr> <td>9</td> <td>White</td> <td>UL Approved - Special Order</td> </tr> </tbody> </table>	Code	Color	Availability	0	Black	Special Order only	1	White	Standard	8	Black	UL Approved - Special Order	9	White	UL Approved - Special Order	<p>16</p> <p>Plating Option</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Contact</th> </tr> </thead> <tbody> <tr> <td rowspan="4">16</td> <td>Gold in Contact Area</td> </tr> <tr> <td>Tin on Solder Tail</td> </tr> <tr> <td>Bracket</td> </tr> <tr> <td>Tin All Over</td> </tr> </tbody> </table>	Code	Contact	16	Gold in Contact Area	Tin on Solder Tail	Bracket	Tin All Over
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