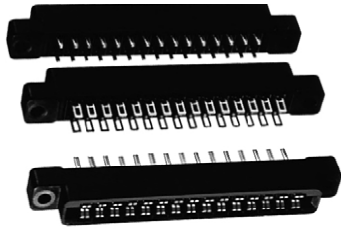


## Edgeboard Connectors, Dual Readout



### ELECTRICAL SPECIFICATIONS

**Current Rating:** 5 A

**Test Voltage Between Contacts:**

At sea level: 1800 V<sub>RMS</sub>

At 70 000 feet (21 336 meters): 450 V<sub>RMS</sub>

**Insulation Resistance:** 5000 MΩ minimum at 500 V<sub>DC</sub> potential

**Contact Resistance:** 30 mV maximum at rated current (with gold plating)

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

**Humidity:** 96 h at 90 % relative humidity at +40 °C, dried at room temperature for 3 h minimum, insulation resistance was greater than 5000 MΩ

**Durability:** (with gold plating) after 500 cycles of insertion and withdrawal of a 0.070" (1.78 mm) thick steel test gauge, contact resistance less than 0.030 V at 5 A and individual contact retention force when measured with 0.054" (1.37 mm) thick steel test slug greater than ½ oz.

**Shock:** three 50G shocks in each of 3 mutually perpendicular planes with no loss of continuity

**Vibration:** 2 h in each of 3 mutually perpendicular planes, frequency sweep 10 cps to 55 cps at 0.06 double amplitude with no loss of continuity

### PHYSICAL SPECIFICATIONS

**Contact Type:** bifurcated bellows

**Number of Contacts:** 6, 10, 12, 15, 18, 22, 24, 25 per side

**Contact Spacing:** 0.156" (3.96 mm) center to center

**Card Thickness:** 0.054" to 0.071" (1.37 mm to 1.80 mm)

**Card Slot Depth:** dual readout = 0.330" (8.38 mm)

**Note**

- High temperature burn-in, edgeboard connectors, 0.156" (3.96 mm) center to center are on [www.vishay.com/doc?36006](http://www.vishay.com/doc?36006)

### FEATURES

- 0.156" C-C x 0.200" grid (3.96 mm x 5.08 mm)
- Greater design latitude  
3 body materials: diallyl phthalate, phenolic and glass-filled polyester  
6 contact termination styles, 8 body sizes, 7 mounting styles
- Bifurcated bellows contacts provide 2 flexing contact surfaces to assure positive contact
- Accepts PC board thickness of 0.054" to 0.071" (1.37 mm to 1.80 mm)
- Polarization between contact positions in all sizes
- Selective gold plating

### APPLICATIONS

For use with 0.062" (1.57 mm) printed circuit boards requiring an edgeboard type connector on 0.156" (3.96 mm) centers

### MATERIAL SPECIFICATIONS

**Body:**

"1" glass-filled diallyl phtalate per MIL-M-14, type SDG-F green, flame retardant (UL 94 V-0)

"2" glass-filled phenolic per MIL-M-14, type MFH dark green, flame retardant (UL 94 V-0)

"3" thermoplastic polyester, glass-filled, black, flame retardant (UL 94 V-0)

"5" thermoplastic polyphenylene sulfied, glass-filled, brown, flame retardant (UL 94 V-0)

**Contacts:** phosphor bronze

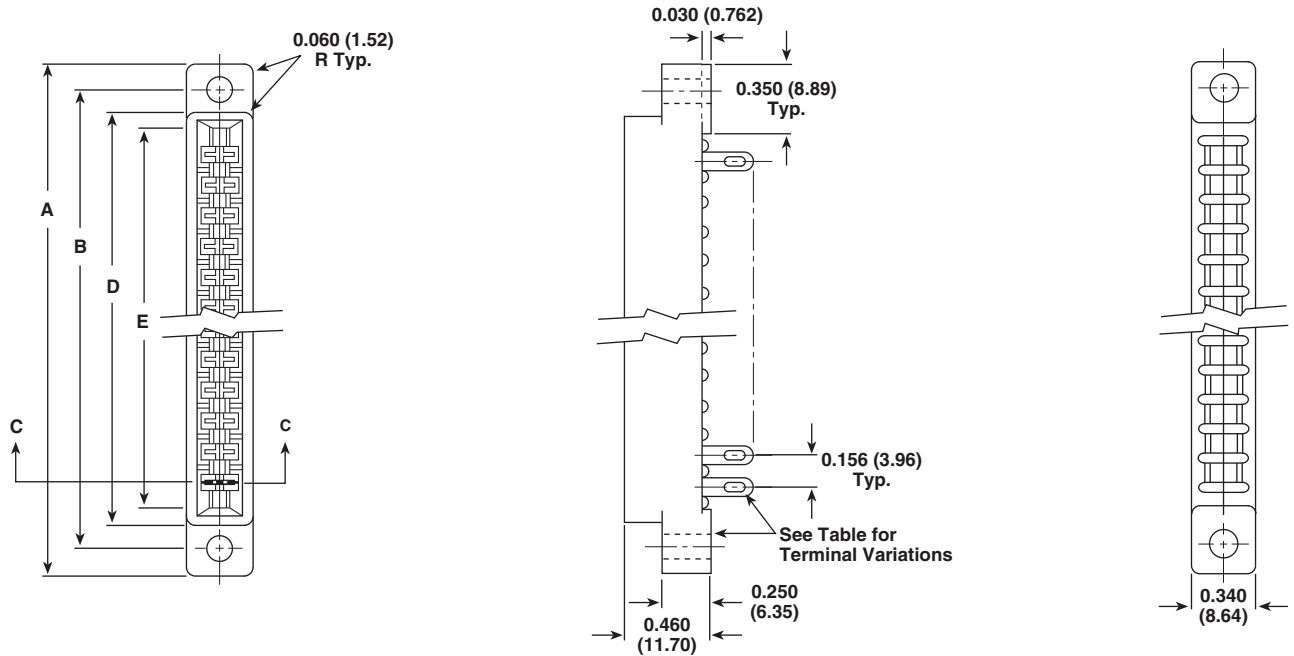
**Polarizing Key:** glass reinforced nylon, flame retardant (UL 94H-B)

**Contact Plating:** gold (see Ordering Information)

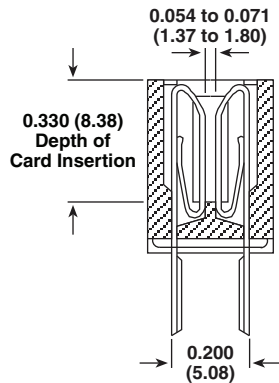
### ORDERING INFORMATION

| EB8   | 1   | A                            | 22                                    | SG   | X                   | A   |
|-------|---|------------------------------|---------------------------------------|--|---------------------|---|
| MODEL | BODY MATERIAL   | STANDARD TERMINAL VARIATIONS | CONTACTS PER SIDE                     | CONTACT PLATING  | MOUNTING VARIATIONS | POLARIZING KEY POSITIONS  |
|       | Optional body material<br>1 = diallyl phthalate<br>2 = phenolic<br>3 = glass-filled polyester<br>5 = glass-filled polyphenylene sulfied | A, C, D,<br>K, L, or E       | 6, 10, 12,<br>15, 18, 22,<br>24 or 25 | SG = selective gold plating (0.00003" (0.000762 mm) minimum thick) on contact area with gold flash on terminal<br>SGF = selective gold plating (0.000010" (0.000254 mm) minimum thick) on contact area with gold flash on terminal.<br>All gold plating over 0.00005" (0.00127 mm) minimum nickel underplate.<br>Contact factory for additional plating options. |                     | Key(s) are located to right of position(s) designated. Required only when polarizing keys are to be factory installed |

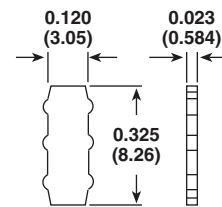
**DIMENSIONS** in inches (millimeters)



**Section C to C:**



**Polarizing Key:**

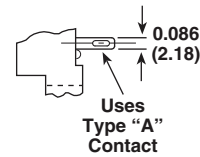
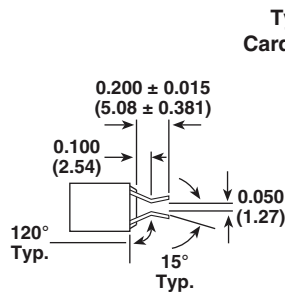
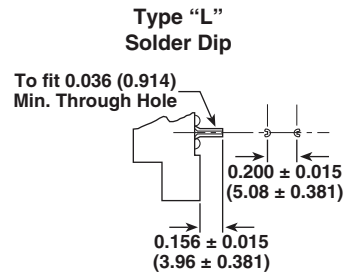
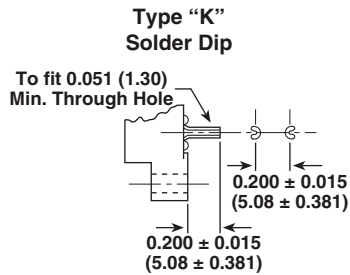
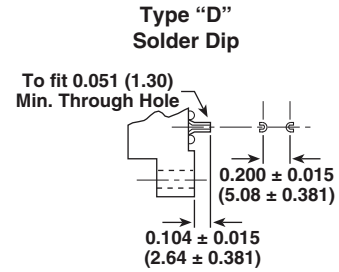
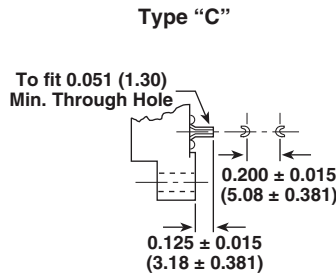
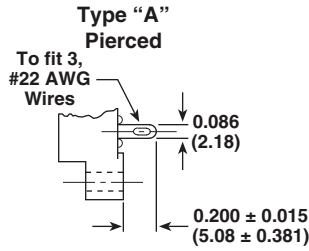


When ordering polarizing keys individually, specify by the Model Number:  
 PK-8 between contacts. Hand insertion tool, TPK-8, provided upon request.

| # OF CONTACT POSITIONS | A             | B              | D              | E              |
|------------------------|---------------|----------------|----------------|----------------|
| 6                      | 1.78 (45.21)  | 1.531 (38.89)  | 1.240 (31.50)  | 1.100 (27.94)  |
| 10                     | 2.41 (61.21)  | 2.156 (54.76)  | 1.864 (47.35)  | 1.724 (43.79)  |
| 12                     | 2.72 (69.09)  | 2.469 (62.71)  | 2.176 (55.27)  | 2.036 (51.71)  |
| 15                     | 3.19 (81.03)  | 2.937 (74.60)  | 2.644 (67.16)  | 2.504 (63.60)  |
| 18                     | 3.66 (92.96)  | 3.406 (86.51)  | 3.112 (79.05)  | 2.972 (75.49)  |
| 22                     | 4.28 (108.71) | 4.031 (102.39) | 3.736 (94.89)  | 3.596 (91.34)  |
| 24                     | 4.59 (116.59) | 4.344 (110.33) | 4.051 (102.89) | 3.911 (99.34)  |
| 25                     | 4.75 (120.65) | 4.500 (114.30) | 4.207 (106.86) | 4.067 (103.30) |

| MOUNTING VARIATIONS in inches (millimeters)               |   |   |                                       |
|---|---|---|---------------------------------------|
| <b>Type "V"</b><br>Clearance Hole<br>                     | <b>Type "VI"</b><br>Clearance Hole<br>No Mounting Pad<br> | <b>Type "W"</b><br>No Mounting Flange<br>   | <b>Type "X"</b><br>Clearance Hole<br> |
| <b>Type "XI"</b><br>Clearance Hole<br>No Mounting Pad<br> | <b>Type "Y"</b><br>Threaded Insert<br>                    | <b>Type "Z"</b><br>Floating Bushing Radial Float 0.047 (1.19)<br><p style="text-align: right;"><b>Note:</b> Overall body length increased by 0.060 (1.52)</p> |                                       |

**TERMINAL VARIATIONS** in inches (millimeters)





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