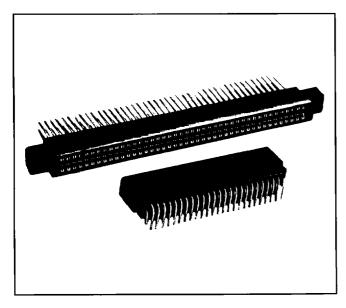
MODEL EB4 Edgeboard Connectors

Dual Readout, .100" [2.54mm] C-C Standard and Right Angle Terminals





ELECTRICAL SPECIFICATIONS

Current Rating: 3 amps.

Test Voltage Between Contacts:

At sea level: 650 V RMS.

At 70,000 feet [21,336 meters]: 275 V RMS.

Insulation Resistance: 5000 Megohm minimum at 500

VDC potential.

Contact Resistance: 30 millivolts maximum at rated

current (with gold plating)

Operating Temperature: - 65°C to + 125°C

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

Durability: After 500 cycles of insertion and withdrawal of a .070" [1.78mm] thick steel test board, contact resistance less than .030 V at 3 amps on gold plated contacts and individual contact pair separation force when measured with a .054" [1.37mm] thick steel test blade was greater than 1/2 ounce.

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

Vibration: 2 hours in each of 3 mutually perpendicular planes, frequency sweep 10 to 55 cps at .06 double amplitude with no loss of continuity.

MATERIAL SPECIFICATIONS

Body Material:

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

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

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

Contacts: Phosphor bronze. (See How to Order.)

Polarizing Key: Glass reinforced nylon, flame retardant

(UL 94H-B).

Plating: Gold. (See How to Order.)

FEATURES

- Grid Patterns: .100" C-C x .150" [2.54mm x 3.81mm] and .100" C-C x .200" [2.54mm x 5.08mm]
- Standard and right angle terminals
- Greater design latitude

3 body materials: Diallyl phthalate, phenolic and glass-filled polyester

7 contact termination styles - 3 Standard, 4 Right Angle 20 body sizes and 6 mounting styles

· Selective gold plating

- Accepts PC board thickness of .054" to .071" [1.37mm to 1.80mm]
- Polarization between contact positions in all sizes.
 Between contact polarization permits polarizing without loss of contact position.
- Recognized under the Component Program of Underwriters Laboratories Inc. Listed under File E65524, Project 77CH3889.

APPLICATIONS

For use with .0625" [1.59mm] printed circuit boards requiring an edgeboard type connector on .100" [2.54mm] centers.

PHYSICAL SPECIFICATIONS

Contact Type: Bifurcated Cantilever Beam.

Number of Contacts: 10, 12, 15, 18, 20, 22, 25, 28, 30, 31, 35, 36, 40, 43, 44, 48, 49, 50, 60 and 65 per side.

Contact Terminal Variation: Standard Terminals.

Type "C" - Dip Solder, .025" [.635mm] square terminals, .175" [4.44mm] nominal terminal length below standoffs.

Type "D" - Dip Solder, .025" [.635mm] square terminals, .115" [2.92mm] nominal terminal length below standoffs.

Type "K" - Wire Wrap™, .025" [.635mm] square terminals, .570" [14.48mm] nominal terminal length below standoffs.

Contact Terminal Variation: Right Angle Terminals.

Type "1R" - Dip Solder, .025" [.635mm] square terminals, .120" [3.05mm] nominal terminal length x .150" [3.81mm] nominal terminal row spacing.

Type "2R" - Dip Solder, .025" [.635mm] square terminals, .120" [3.05mm] nominal terminal length x .200" [5.08mm] nominal terminal row spacing.

Type "3R" - Dip Solder, .025" [.635mm] square terminals, .180" [4.57mm] nominal terminal length x .150" [3.81mm] nominal terminal row spacing.

Type "4R" - Dip Solder, .025" [.635mm] square terminals, .180" [4.57mm] nominal terminal length x .200" [5.08mm] nominal terminal row spacing.

Contact Spacing: .100" [2.54mm] center to center.

Contact Terminal Row Spacing:

Standard - .200" [5.08mm] nominal.

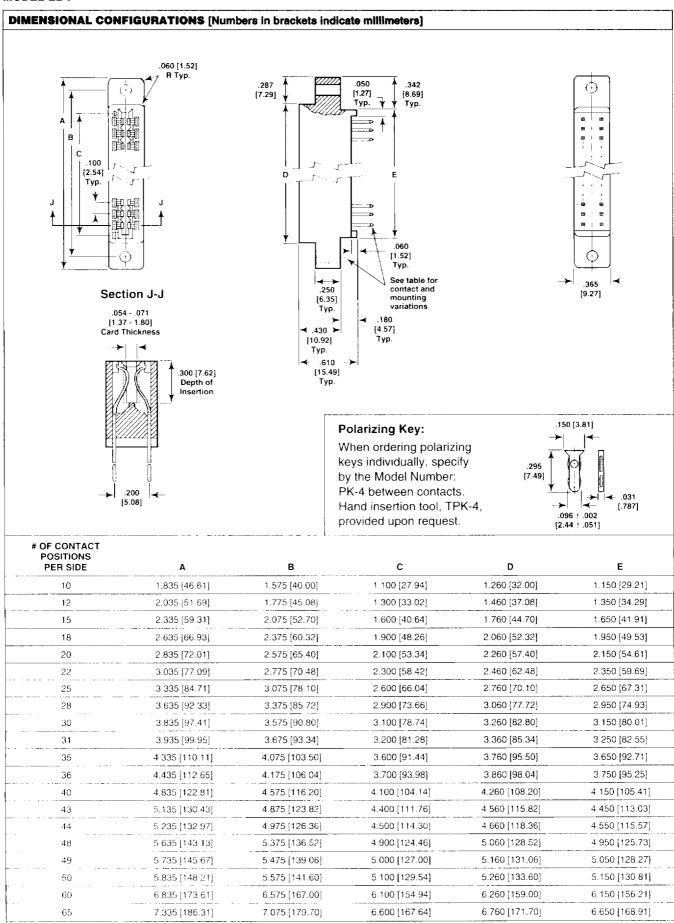
Right Angle - .200" [5.08mm] nominal and .150" [3.81mm] nominal.

Card Thickness: .054" to .071" [1.37mm to 1.80mm].

Card Slot Depth: .300" [7.62mm].

Connector Polarization: Between contact polarization key(s) are located to the right of the contact position(s) designated.

High temperature burn-in, edgeboard connectors, with .100" [2.54mm] center to center are on page 392 of this catalog.



MOUNTING VARIATIONS [Numbers in brackets indicate millmeters] Type "XF" Type "XS" Type "X" **Right Angle** Clearance Hole Clearance Hole **Mounting Flange Raised Mounting Flange** Flush Mounting Flange .060 [1.52] Ref. .060 [1.52] Ref. .060 [1.52] Ref. 125 .125 [3.17] [3.17] Dia. .125 .125 [3.17] [3.17] Dia. .430 $\{6.35\}$ $\{6.35\}$.610 .430 [6.35] [10.92] .610 → [15.49] .610 [15.49] [10.92] Ref. [15.49] Ref Type "Y" Type "YF" Type "W" Threaded Insert No Mounting Flange Threaded Insert Flush Mounting Flange Raised Mounting Flange .060 [1.52] Ref. .060 [1.52] Ref. .060 [1.52] Ref. .180 [4.57] .430 4-40 [10.92] 4-40 UNC-2B .250 .250 .610 UNC-2B .430 --[15.49] .610 [10.92] .610 [15.49] Ref. [15.49] Ref.

