



## Edgeboard Connectors, 200 °C Burn-In Connectors, Dual Readout



### FEATURES

- EB4, 0.100" (2.54 mm) C-C; EB6, 0.125" (3.17 mm) C-C; and EB8, 0.156" (3.96 mm) C-C
- Right angle styles included for all models
- High temperature, glass reinforced PPS connector bodies - 200 °C
- High reliability copper-nickel-tin alloy contacts
- Accepts PC board thickness of 0.054" to 0.071" (1.37 mm to 1.80 mm)
- High reliability bifurcated bellows contacts
- Gold plated contacts
- Card extender style terminals standard
- Variety of mounting styles available
- **Recognized under the Component Program of Underwriters Laboratories, Inc. listed under file E65524**

### APPLICATIONS

High temperature, long life connectors specifically designed for burn-in oven and automatic temperature testing applications.

Available in a wide range of sizes. Priced affordably and competitively.

### SPECIAL NOTE

When operating units at elevated temperatures, solder having a melting point 50 °C above the operating temperature should be used. Contact factory for specific solder information.

### MATERIAL SPECIFICATIONS

**Body Material:** 200 °C connectors: Fiberglass reinforced polyphenylene sulfide, + 200 °C operating temperature, flame retardant (UL 94 V-0)

**Contacts:** Copper-nickel-tin alloy per ASTM B 740

**Plating:** Gold plating (0.00003" (0.000762 mm) thick), over 0.00005" (0.00127 mm) minimum nickel underplate

### ELECTRICAL SPECIFICATIONS

**Current Rating:** EB4 = 3 A; EB6 = 3 A; EB8 = 5 A

**Test Voltage Between Contacts:**

At sea level: EB4 = 650 V<sub>RMS</sub>; EB6 = 1500 V<sub>RMS</sub>; EB8 = 1800 V<sub>RMS</sub>

At 70 000 feet (21 336 meters): EB4 = 275 V<sub>RMS</sub>; EB6 = 325 V<sub>RMS</sub>; EB8 = 450 V<sub>RMS</sub>

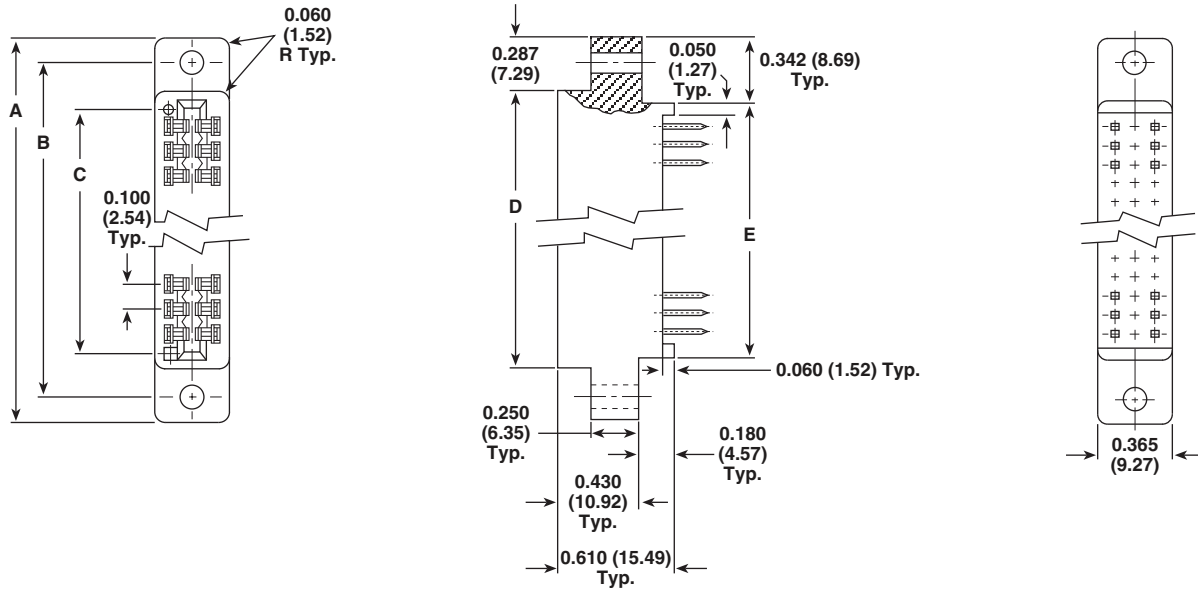
**Insulation Resistance:** 5000 MΩ minimum at 500 V<sub>DC</sub> potential

**Contact Resistance:** 30 mV maximum at rated current

**Humidity:** 48 h at 95 % relative humidity at + 90 °C, insulation resistance 5000 MΩ

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

**DIMENSIONS** in inches (millimeters)

**EB4 0.100" (2.54 mm) C-C**


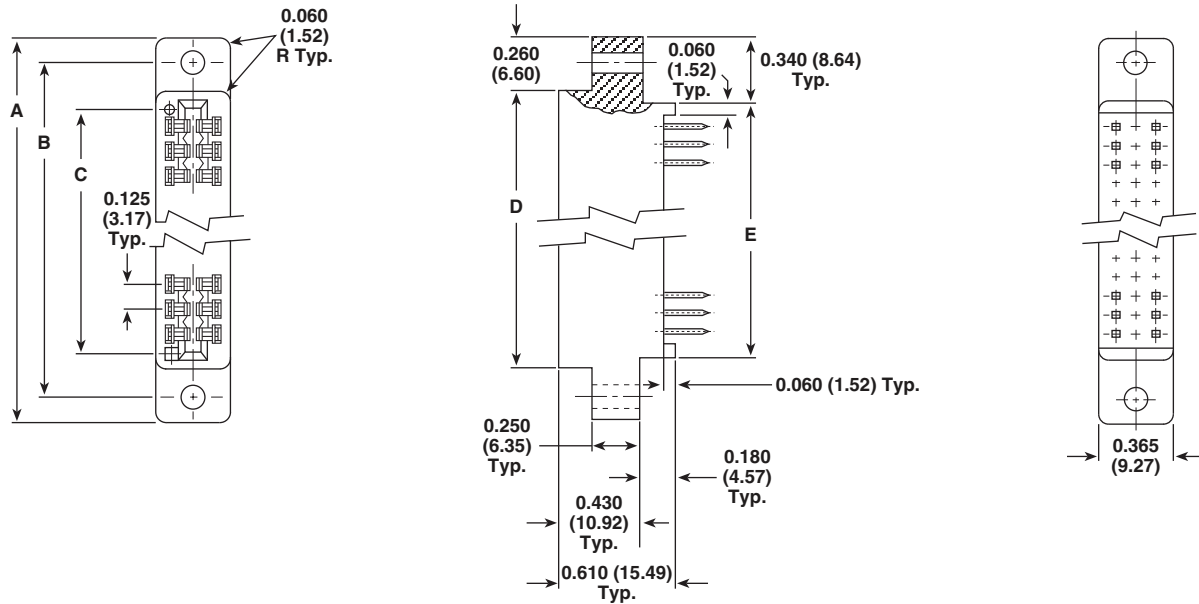
MODEL - PART NUMBER	# OF CONTACT POSITIONS PER SIDE	A	B	C	D	E	CARD SLOT DEPTH
EB45-P□6GΔ	6	1.435 (36.45)	1.175 (29.85)	0.700 (17.78)	0.860 (24.84)	0.750 (19.05)	0.300 (7.62)
EB45-P□10GΔ	10	1.835 (46.61)	1.575 (40.00)	1.100 (27.94)	1.260 (32.00)	1.150 (29.21)	0.300 (7.62)
EB45-P□12GΔ	12	2.035 (51.69)	1.775 (45.08)	1.300 (33.02)	1.460 (37.08)	1.350 (34.29)	0.300 (7.62)
EB45-P□15GΔ	15	2.335 (59.31)	2.075 (52.70)	1.600 (40.64)	1.760 (44.70)	1.650 (41.91)	0.300 (7.62)
EB45-P□18GΔ	18	2.635 (66.93)	2.375 (60.32)	1.900 (48.26)	2.060 (52.32)	1.950 (49.53)	0.300 (7.62)
EB45-P□20GΔ	20	2.835 (72.01)	2.575 (65.40)	2.100 (53.34)	2.260 (57.40)	2.150 (54.61)	0.300 (7.62)
EB45-P□22GΔ	22	3.035 (77.09)	2.775 (70.48)	2.300 (58.42)	2.460 (62.48)	2.350 (59.69)	0.300 (7.62)
EB45-P□25GΔ	25	3.335 (84.71)	3.075 (78.10)	2.600 (66.04)	2.760 (70.10)	2.650 (67.31)	0.300 (7.62)
EB45-P□28GΔ	28	3.635 (92.33)	3.375 (85.72)	2.900 (73.66)	3.060 (77.72)	2.950 (74.93)	0.300 (7.62)
EB45-P□30GΔ	30	3.835 (97.41)	3.575 (90.80)	3.100 (78.74)	3.260 (82.80)	3.150 (80.01)	0.300 (7.62)
EB45-P□31GΔ	31	3.935 (99.95)	3.675 (93.34)	3.200 (81.28)	3.360 (85.34)	3.250 (82.55)	0.300 (7.62)
EB45-P□35GΔ	35	4.335 (110.11)	4.075 (103.50)	3.600 (91.44)	3.760 (95.50)	3.650 (92.71)	0.300 (7.62)
EB45-P□36GΔ	36	4.435 (112.65)	4.175 (106.04)	3.700 (93.98)	3.860 (98.04)	3.750 (95.25)	0.300 (7.62)
EB45-P□40GΔ	40	4.835 (122.81)	4.575 (116.20)	4.100 (104.14)	4.260 (108.20)	4.150 (105.41)	0.300 (7.62)
EB45-P□43GΔ	43	5.135 (130.43)	4.875 (123.82)	4.400 (111.76)	4.560 (115.82)	4.450 (113.03)	0.300 (7.62)
EB45-P□44GΔ	44	5.235 (132.97)	4.975 (126.36)	4.500 (114.30)	4.660 (118.36)	4.550 (115.57)	0.300 (7.62)
EB45-P□48GΔ	48	5.635 (143.13)	5.375 (136.52)	4.900 (124.46)	5.060 (128.52)	4.950 (125.73)	0.300 (7.62)
EB45-P□49GΔ	49	5.735 (145.67)	5.475 (139.06)	5.000 (127.00)	5.160 (131.06)	5.050 (128.27)	0.300 (7.62)
EB45-P□50GΔ	50	5.835 (148.21)	5.575 (141.60)	5.100 (129.54)	5.260 (133.60)	5.150 (130.81)	0.300 (7.62)
EB45-P□60GΔ	60	6.835 (173.61)	6.575 (167.00)	6.100 (154.94)	6.260 (159.00)	6.150 (156.21)	0.300 (7.62)
EB45-P□65GΔ	65	7.335 (186.31)	7.075 (179.70)	6.600 (167.64)	6.760 (171.70)	6.650 (168.91)	0.300 (7.62)

**ORDERING INFORMATION**

When ordering connectors using the above part numbers:

- = Indicate "E" for card extender, "K" for Wire Wrap™ or "3R" for right angle terminals
- Δ = Indicate "X" for standard mounting, "XF" for flush mounting or "XS" for side mounting

**DIMENSIONS** in inches (millimeters)

**EB6 0.125" (3.17 mm) C-C**


MODEL - PART NUMBER	# OF CONTACT POSITIONS PER SIDE	A	B	C	D	E	CARD SLOT DEPTH
EB65-P□6GΔ	6	1.555 (39.50)	1.295 (32.89)	0.875 (22.22)	1.035 (26.29)	0.875 (22.22)	0.300 (7.62)
EB65-P□10GΔ	10	2.055 (52.20)	1.795 (45.59)	1.375 (34.92)	1.535 (38.99)	1.375 (34.92)	0.300 (7.62)
EB65-P□12GΔ	12	2.305 (58.55)	2.045 (51.94)	1.625 (41.28)	1.785 (45.34)	1.625 (41.28)	0.300 (7.62)
EB65-P□14GΔ	14	2.555 (64.90)	2.295 (58.29)	1.875 (47.62)	2.035 (51.69)	1.875 (47.62)	0.300 (7.62)
EB65-P□15GΔ	15	2.680 (68.07)	2.420 (61.47)	2.000 (50.80)	2.160 (54.86)	2.000 (50.80)	0.300 (7.62)
EB65-P□18GΔ	18	3.055 (77.60)	2.795 (70.99)	2.375 (60.32)	2.535 (64.39)	2.375 (60.32)	0.300 (7.62)
EB65-P□22GΔ	22	3.555 (90.30)	3.295 (83.69)	2.875 (73.02)	3.035 (77.09)	2.875 (73.02)	0.300 (7.62)
EB65-P□24GΔ	24	3.805 (96.65)	3.545 (90.04)	3.125 (79.38)	3.285 (83.44)	3.125 (79.38)	0.300 (7.62)
EB65-P□25GΔ	25	3.930 (99.82)	3.670 (93.22)	3.250 (82.55)	3.410 (86.61)	3.250 (82.55)	0.300 (7.62)
EB65-P□28GΔ	28	4.305 (109.35)	4.045 (102.74)	3.625 (92.08)	3.785 (96.14)	3.625 (92.08)	0.300 (7.62)
EB65-P□30GΔ	30	4.555 (115.70)	4.295 (109.09)	3.875 (98.42)	4.035 (102.49)	3.875 (98.42)	0.300 (7.62)
EB65-P□31GΔ	31	4.680 (118.87)	4.420 (112.27)	4.000 (101.60)	4.160 (105.66)	4.000 (101.60)	0.300 (7.62)
EB65-P□32GΔ	32	4.805 (122.05)	4.545 (115.44)	4.125 (104.78)	4.285 (108.84)	4.125 (104.78)	0.300 (7.62)
EB65-P□35GΔ	35	5.180 (131.57)	4.920 (124.97)	4.500 (114.30)	4.660 (118.36)	4.500 (114.30)	0.300 (7.62)
EB65-P□36GΔ	36	5.305 (134.75)	5.045 (128.14)	4.625 (117.48)	4.785 (121.54)	4.625 (117.48)	0.300 (7.62)
EB65-P□40GΔ	40	5.805 (147.45)	5.545 (140.84)	5.125 (130.18)	5.285 (134.24)	5.125 (130.18)	0.300 (7.62)
EB65-P□43GΔ	43	6.180 (156.97)	5.920 (150.37)	5.500 (139.70)	5.660 (143.76)	5.500 (139.70)	0.300 (7.62)
EB65-P□44GΔ	44	6.305 (160.15)	6.045 (153.54)	5.625 (142.88)	5.785 (146.94)	5.625 (142.88)	0.300 (7.62)
EB65-P□49GΔ	49	6.930 (176.02)	6.670 (169.42)	6.250 (158.75)	6.410 (162.81)	6.250 (158.75)	0.300 (7.62)
EB65-P□50GΔ	50	7.055 (179.20)	6.795 (172.59)	6.375 (161.92)	6.535 (165.99)	6.375 (161.92)	0.300 (7.62)

**ORDERING INFORMATION**

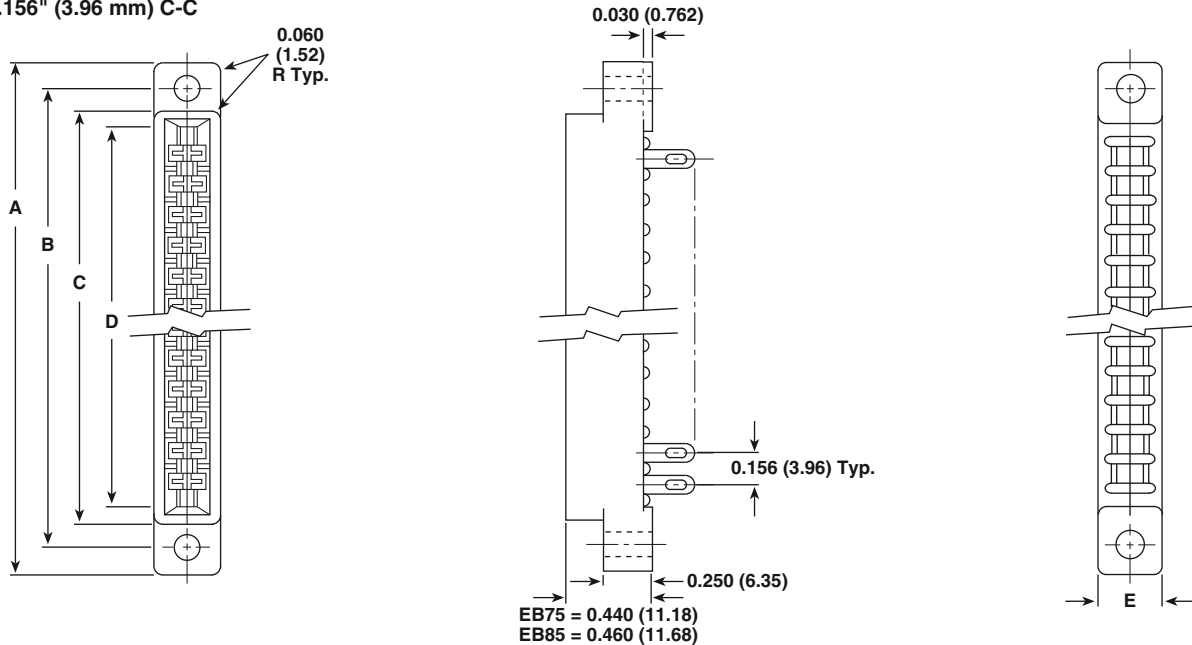
When ordering connectors using the above part numbers:

- = Indicate "E" for card extender, "K" for Wire Wrap™ or "3R" for right angle terminals
- Δ = Indicate "X" for standard mounting, "XF" for flush mounting or "XS" for side mounting



**DIMENSIONS** in inches (millimeters)

EB8 0.156" (3.96 mm) C-C



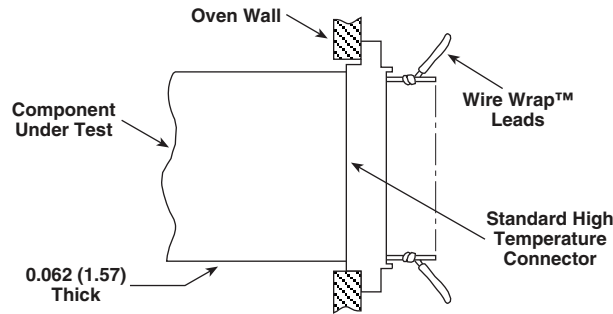
MODEL - PART NUMBER	# OF CONTACT POSITIONS PER SIDE	A	B	C	D	E	CARD SLOT DEPTH
EB85-P□6G△	6	1.780 (45.21)	1.531 (38.89)	1.240 (31.50)	1.100 (27.94)	0.340 (8.64)	0.330 (8.38)
EB85-P□10G△	10	2.410 (61.21)	2.156 (54.76)	1.864 (47.35)	1.724 (43.79)	0.340 (8.64)	0.330 (8.38)
EB85-P□12G△	12	2.720 (69.09)	2.469 (62.71)	2.176 (55.27)	2.036 (51.71)	0.340 (8.64)	0.330 (8.38)
EB85-P□15G△	15	3.190 (81.03)	2.937 (74.60)	2.644 (67.16)	2.504 (63.60)	0.340 (8.64)	0.330 (8.38)
EB85-P□18G△	18	3.660 (92.96)	3.406 (86.51)	3.112 (79.04)	2.972 (75.49)	0.340 (8.64)	0.330 (8.38)
EB85-P□22G△	22	4.280 (108.71)	4.031 (102.39)	3.736 (94.89)	3.596 (91.34)	0.340 (8.64)	0.330 (8.38)
EB85-P□24G△	24	4.590 (116.59)	4.344 (110.34)	4.051 (102.90)	3.911 (99.34)	0.340 (8.64)	0.330 (8.38)
EB85-P□25G△	25	4.750 (120.65)	4.500 (114.30)	4.207 (106.86)	4.067 (103.30)	0.340 (8.64)	0.330 (8.38)

**ORDERING INFORMATION**

When ordering connectors using the above part numbers:

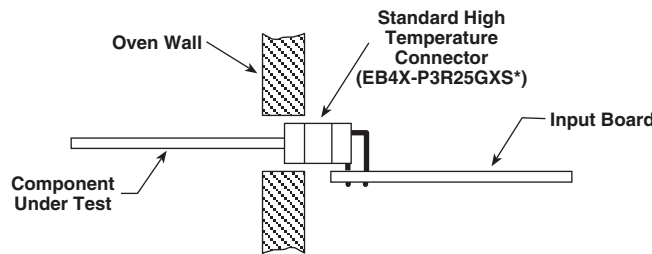
- = Indicate "A" for solder eyelet or "E" for card extender. **Note:** Dimensions are the same for "A" or "E" styles
- △ = Indicate "X" for standard mounting or "XS" for side mounting

**MOUNTING STYLES** in inches (millimeters)

**Wire Wrap™  
Permanent Mounting**

 EB4 0.100" (2.54 mm) C-C  
 EB6 0.125" (3.17 mm) C-C

**200 °C WIRE WRAP™ MODEL NUMBERS**

EB45-PK10GX	EB45-PK35GX	EB65-PK6GX	EB65-PK30GX
EB45-PK12GX	EB45-PK36GX	EB65-PK10GX	EB65-PK31GX
EB45-PK15GX	EB45-PK40GX	EB65-PK12GX	EB65-PK32GX
EB45-PK18GX	EB45-PK43GX	EB65-PK14GX	EB65-PK35GX
EB45-PK20GX	EB45-PK44GX	EB65-PK15GX	EB65-PK36GX
EB45-PK22GX	EB45-PK48GX	EB65-PK18GX	EB65-PK40GX
EB45-PK25GX	EB45-PK49GX	EB65-PK22GX	EB65-PK43GX
EB45-PK28GX	EB45-PK50GX	EB65-PK24GX	EB65-PK44GX
EB45-PK30GX	EB45-PK60GX	EB65-PK25GX	EB65-PK49GX
EB45-PK31GX	EB45-PK65GX	EB65-PK28GX	EB65-PK50GX

**Right Angle  
PC Board Mounting**

 EB4 0.100" (2.54 mm) C-C  
 EB6 0.125" (3.17 mm) C-C

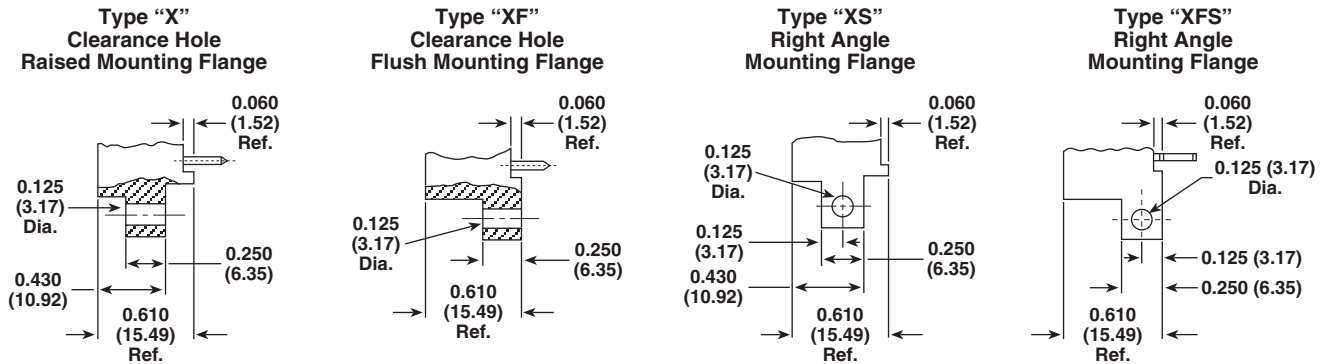
**200 °C RIGHT ANGLE MODEL NUMBERS**

EB45-P3R10GXS	EB45-P3R35GXS	EB65-P3R6GX	EB65-P3R30GX
EB45-P3R12GXS	EB45-P3R36GXS	EB65-P3R10GX	EB65-P3R31GX
EB45-P3R15GXS	EB45-P3R40GXS	EB65-P3R12GX	EB65-P3R32GX
EB45-P3R18GXS	EB45-P3R43GXS	EB65-P3R14GX	EB65-P3R35GX
EB45-P3R20GXS	EB45-P3R44GXS	EB65-P3R15GX	EB65-P3R36GX
EB45-P3R22GXS	EB45-P3R48GXS	EB65-P3R18GX	EB65-P3R40GX
EB45-P3R25GXS*	EB45-P3R49GXS	EB65-P3R22GX	EB65-P3R43GX
EB45-P3R28GXS	EB45-P3R50GXS	EB65-P3R24GX	EB65-P3R44GX
EB45-P3R30GXS	EB45-P3R60GXS	EB65-P3R25GX	EB65-P3R49GX
EB45-P3R31GXS	EB45-P3R65GXS	EB65-P3R28GX	EB65-P3R50GX

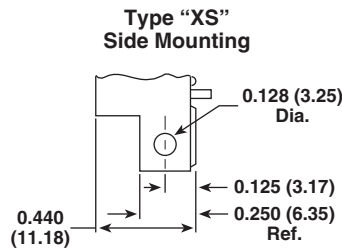
<b>MOUNTING STYLES</b> in inches (millimeters)			
<b>Hard Wire Permanent Mounting</b>		<b>EB8 0.156" (3.96 mm) C-C</b>	
<b>200 °C HARD WIRE MODEL NUMBERS</b>			
EB85-PA6GX	EB85-PA12GX	EB85-PA24GX	EB85-PA24GX
EB85-PA10GX	EB85-PA15GX	EB85-PA22GX	EB85-PA25GX
<b>Card Extender Mounting For Fast Change of Test Setups</b>		<b>EB4 0.100" (2.54 mm) C-C</b> <b>EB6 0.125" (3.17 mm) C-C</b> <b>EB8 0.156" (3.96 mm) C-C</b>	
<b>200 °C CARD EXTENDER MODEL NUMBERS</b>			
EB45-PE10GX	EB45-PE43GX	EB65-PE22GX	EB65-PE50GX
EB45-PE12GX	EB45-PE44GX	EB65-PE24GX	EB85-PE6GX
EB45-PE15GX	EB45-PE48GX	EB65-PE25GX	EB85-PE10GX
EB45-PE18GX	EB45-PE49GX	EB65-PE28GX	EB85-PE12GX
EB45-PE20GX	EB45-PE50GX	EB65-PE30GX	EB85-PE15GX
EB45-PE22GX	EB45-PE60GX	EB65-PE31GX	EB85-PE18GX
EB45-PE25GX	EB45-PE65GX	EB65-PE32GX	EB85-PE22GX
EB45-PE28GX	EB65-PE6GX	EB65-PE35GX	EB85-PE24GX
EB45-PE30GX	EB65-PE10GX	EB65-PE36GX	EB85-PE25GX
EB45-PE31GX	EB65-PE12GX	EB65-PE40GX	
EB45-PE35GX	EB65-PE14GX	EB65-PE43GX	
EB45-PE36GX	EB65-PE15GX	EB65-PE44GX	
EB45-PE40GX	EB65-PE18GX	EB65-PE49GX	

**MOUNTING VARIATIONS** in inches (millimeters)

EB4 0.100" (2.54 mm) C-C, EB6 0.125" (3.17 mm) C-C



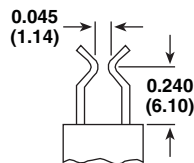
EB8 0.156" (3.96 mm) C-C



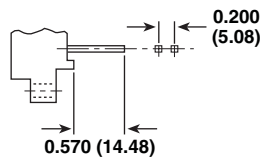
**TERMINAL VARIATIONS** in inches (millimeters)

EB4 0.100" (2.54 mm) C-C

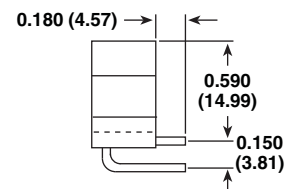
**Type "E" Card Extender**



**Type "K" Wire Wrap™**  
 0.025 (0.630) Square Terminals

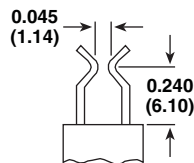


**Type "3R" Right Angle**  
 0.025 (0.630) Square Terminals

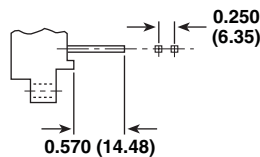


EB6 0.125" (3.17 mm) C-C

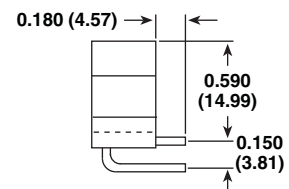
**Type "E" Card Extender**



**Type "K" Wire Wrap™**  
 0.025 (0.630) Square Terminals

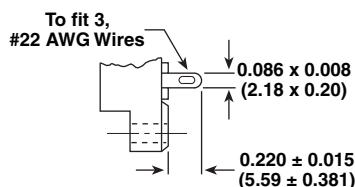


**Type "3R" Right Angle**  
 0.025 (0.630) Square Terminals

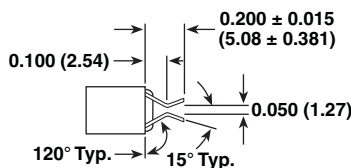


EB8 0.156" (3.96 mm) C-C

**Type "A" Solder Eyelet**



**Type "E" Card Extender (Made from Type "A")**





## Disclaimer

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## Material Category Policy

**Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.**

**Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.**

**Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.**