



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; EB7 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; EB7 = 5 A; EB8 = 5 A

Test Voltage Between Contacts:

At sea level: EB4 = 650 V_{RMS}; EB6 = 1500 V_{RMS}; EB7 = 1800 V_{RMS}; EB8 = 1800 V_{RMS}

At 70 000 feet (21 336 meters): EB4 = 275 V_{RMS}; EB6 = 325 V_{RMS}; EB7 = 450 V_{RMS}; EB8 = 450 V_{RMS}

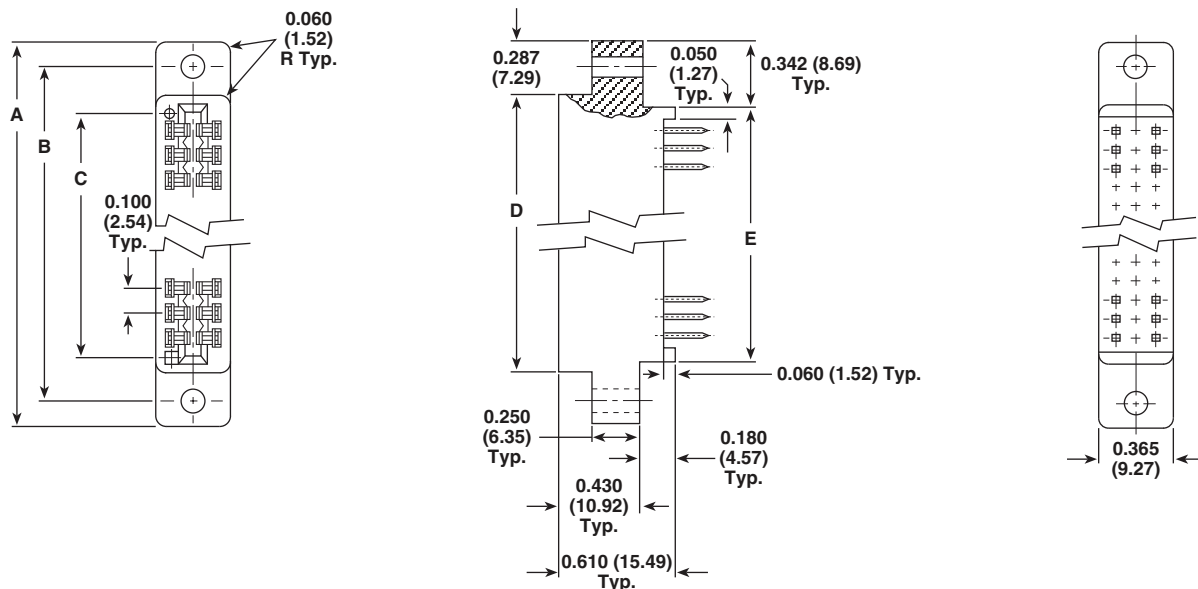
Insulation Resistance: 5000 MΩ minimum at 500 V_{DC} potential

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


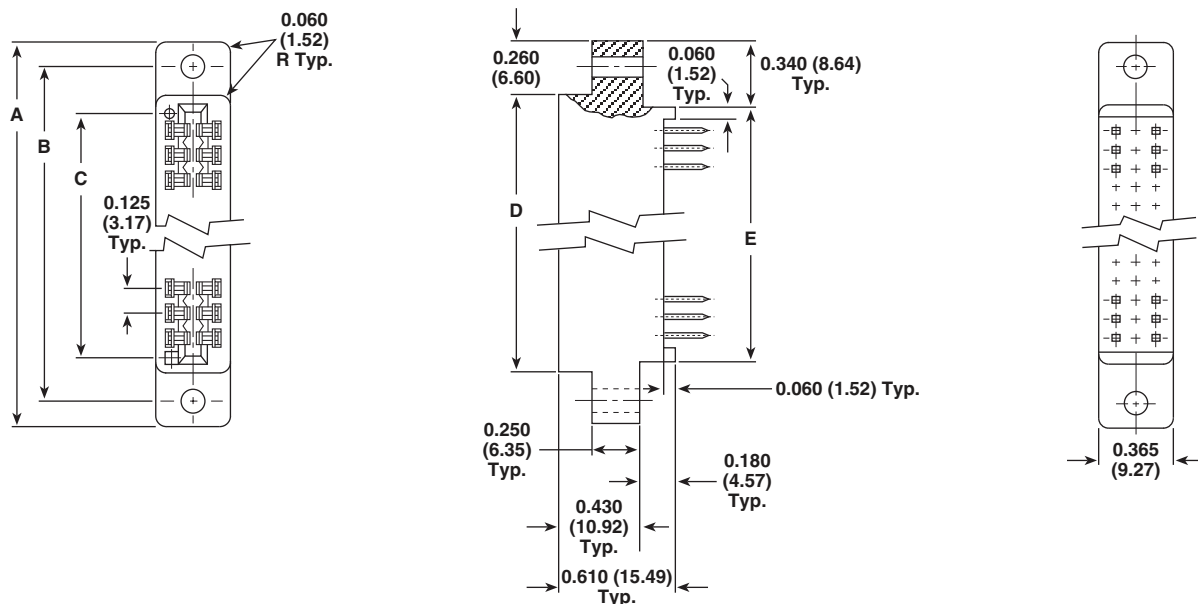
MODEL - PART NUMBER	# OF CONTACT POSITIONS PER SIDE	A	B	C	D	E	CARD SLOT DEPTH
EB45-P□6GΔ	6	1.435 (36.45)	1.175 (29.85)	0.700 (17.78)	0.860 (24.84)	0.750 (19.05)	0.300 (7.62)
EB45-P□10GΔ	10	1.835 (46.61)	1.575 (40.00)	1.100 (27.94)	1.260 (32.00)	1.150 (29.21)	0.300 (7.62)
EB45-P□12GΔ	12	2.035 (51.69)	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


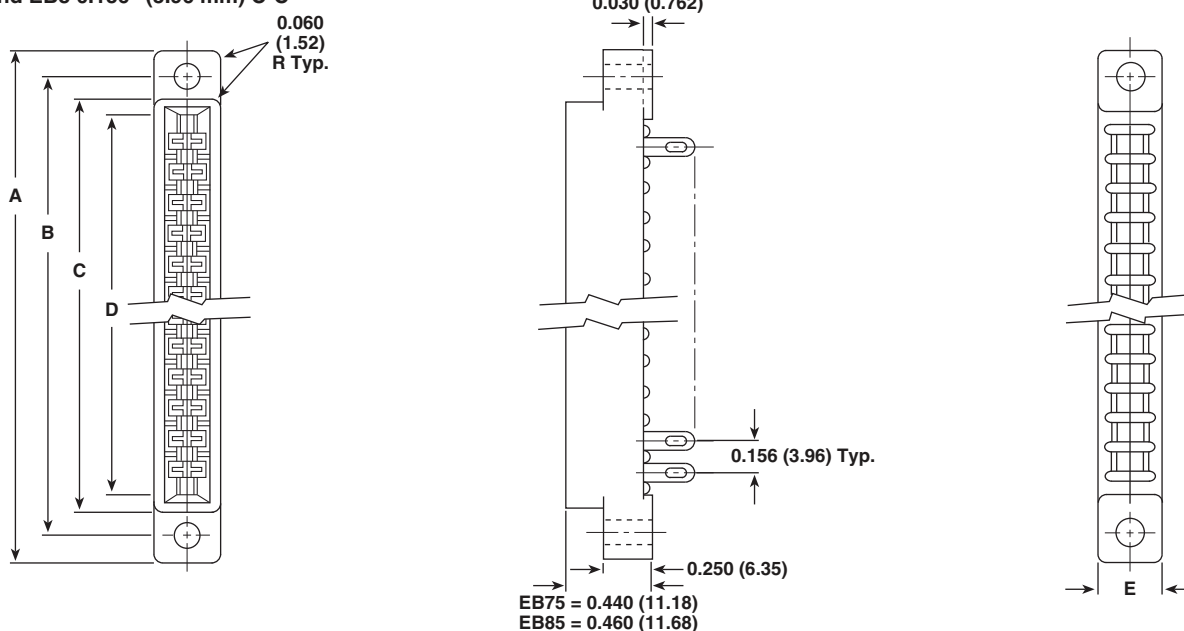
MODEL - PART NUMBER	# OF CONTACT POSITIONS PER SIDE	A	B	C	D	E	CARD SLOT DEPTH
EB65-P□6GΔ	6	1.555 (39.50)	1.295 (32.89)	0.875 (22.22)	1.035 (26.29)	0.875 (22.22)	0.300 (7.62)
EB65-P□10GΔ	10	2.055 (52.20)	1.795 (45.59)	1.375 (34.92)	1.535 (38.99)	1.375 (34.92)	0.300 (7.62)
EB65-P□12GΔ	12	2.305 (58.55)	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)

EB7 and 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□6GΔ	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□10GΔ	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□12GΔ	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□15GΔ	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□18GΔ	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□22GΔ	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□24GΔ	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□25GΔ	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)

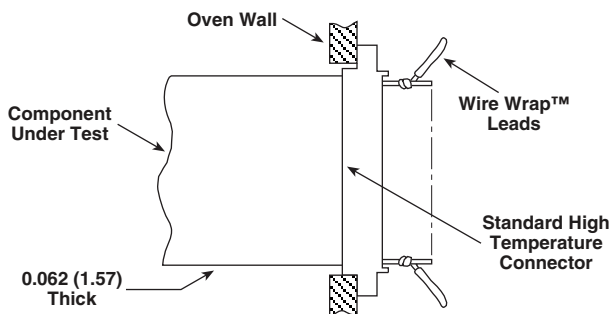
ORDERING INFORMATION

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

Δ = Indicate "X" for standard mounting or "XS" for side mounting

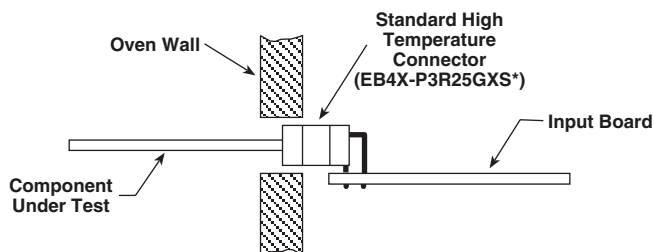
MOUNTING STYLES in inches (millimeters)

**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

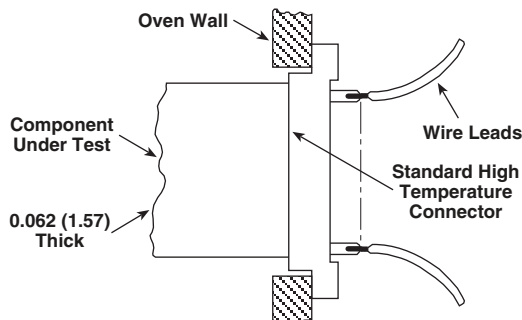
EB45-PK10GX	EB45-PK35GX	EB65-PK6GX	EB65-PK30GX
EB45-PK12GX	EB45-PK36GX	EB65-PK10GX	EB65-PK31GX
EB45-PK15GX	EB45-PK40GX	EB65-PK12GX	EB65-PK32GX
EB45-PK18GX	EB45-PK43GX	EB65-PK14GX	EB65-PK35GX
EB45-PK20GX	EB45-PK44GX	EB65-PK15GX	EB65-PK36GX
EB45-PK22GX	EB45-PK48GX	EB65-PK18GX	EB65-PK40GX
EB45-PK25GX	EB45-PK49GX	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
EB7 0.156" (3.96 mm) C-C

200 °C RIGHT ANGLE MODEL NUMBERS

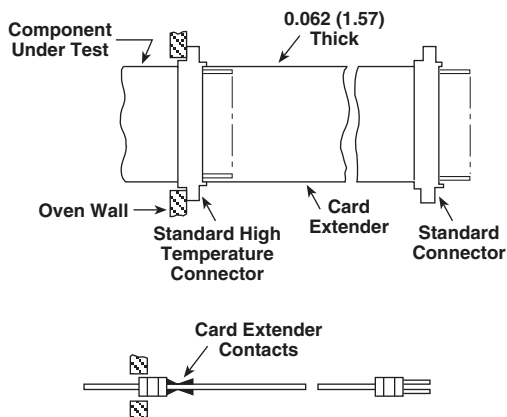
EB45-P3R10GXS	EB45-P3R35GXS	EB65-P3R6GX	EB65-P3R30GX
EB45-P3R12GXS	EB45-P3R36GXS	EB65-P3R10GX	EB65-P3R31GX
EB45-P3R15GXS	EB45-P3R40GXS	EB65-P3R12GX	EB65-P3R32GX
EB45-P3R18GXS	EB45-P3R43GXS	EB65-P3R14GX	EB65-P3R35GX
EB45-P3R20GXS	EB45-P3R44GXS	EB65-P3R15GX	EB65-P3R36GX
EB45-P3R22GXS	EB45-P3R48GXS	EB65-P3R18GX	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

MOUNTING STYLES in inches (millimeters)
**Hard Wire
Permanent Mounting**


EB7 0.156" (3.96 mm) C-C
EB8 0.156" (3.96 mm) C-C

200 °C HARD WIRE MODEL NUMBERS

EB85-PA6GX	EB85-PA15GX	EB85-PA24GX	EB75D-PA43GX
EB85-PA10GX	EB85-PA18GX	EB85-PA25GX	
EB85-PA12GX	EB85-PA22GX	EB75D-PA36GX	

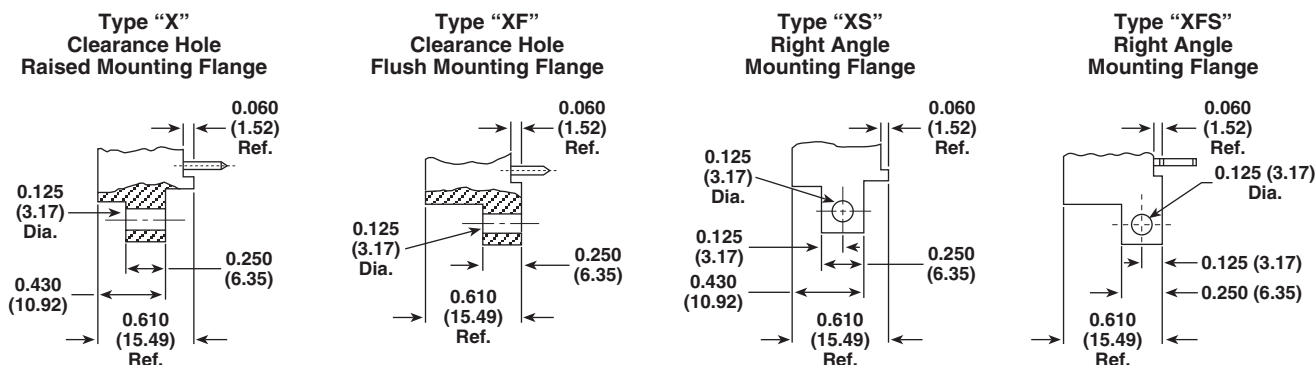
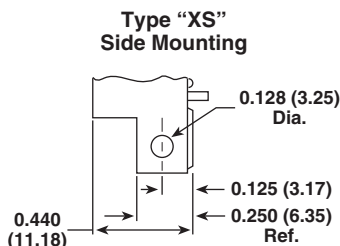
**Card Extender Mounting For
Fast Change of Test Setups**


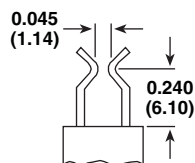
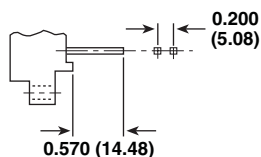
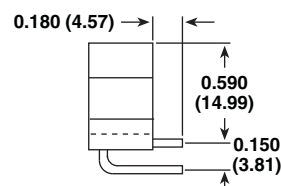
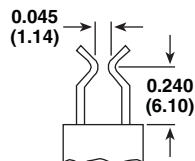
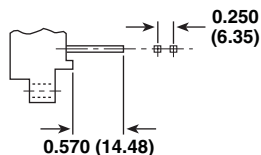
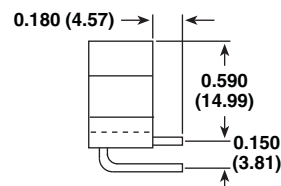
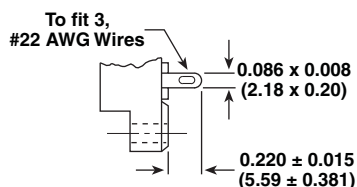
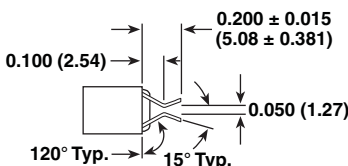
EB4 0.100" (2.54 mm) C-C
EB6 0.125" (3.17 mm) C-C
EB7 0.156" (3.96 mm) C-C
EB8 0.156" (3.96 mm) C-C

200 °C CARD EXTENDER MODEL NUMBERS

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

EB7 and 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

EB7 and EB8 0.156" (3.96 mm) C-C
Type "A" Solder Eyelet

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




Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

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.