



"D" CONNECTOR SHIELDING

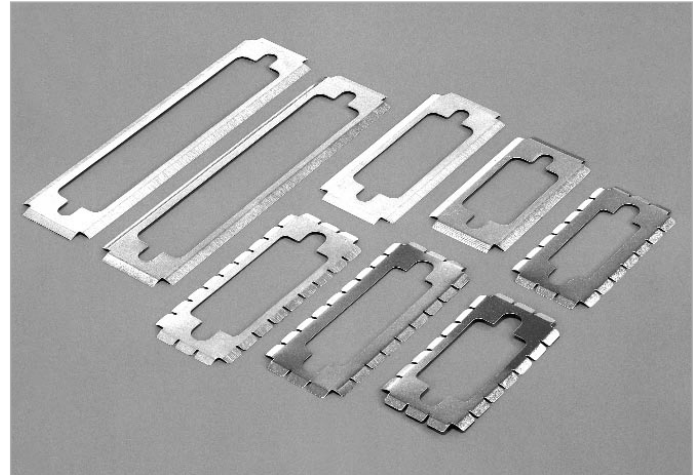
Laird Technologies offers the "D" Connector Shield Series for grounding and shielding of D Subminiature Connectors. This series is designed to fit most commonly used 9 pin through 68 pin connectors.

- Available in stainless steel and beryllium copper, conductive elastomers, oriented wire and other materials
- Improved 20 degree angle flange design on metal connectors:
 - provides continuous contact for increased shielding effectiveness
 - fills gaps and adjusts for irregularities in the flatness of the mounting surface
- Beryllium copper parts available in UltraSoft® low force version and available in a wide variety of finishes, see page 1-11
- Custom shapes and designs also available
- Versatile front or rear mounting

SLOTTED "D" CONNECTOR SHIELDING

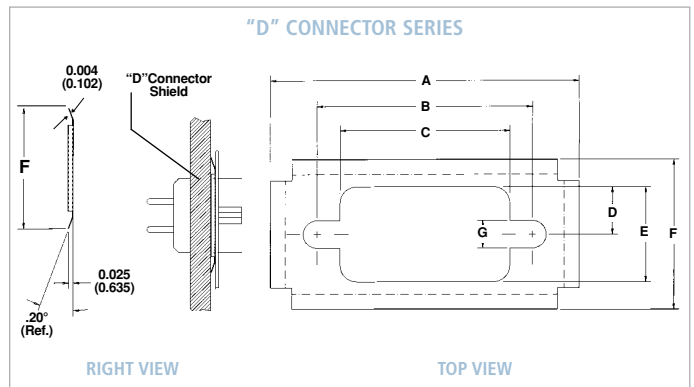
The slotted D connector gaskets provide shielding for most 9 through 50 pin connectors. The separate finger design provides maximum surface contact, provides high shielding effectiveness and low compression forces.

Slotted D connector gaskets are available from stock in copper beryllium and stainless steel. Copper beryllium parts can be plated to a variety of finishes for galvanic compatibility, see page 1-11.



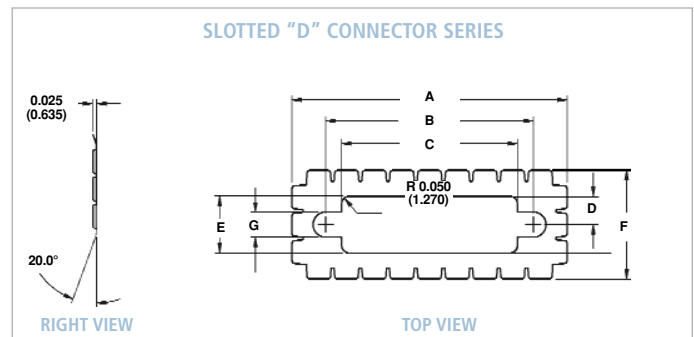
"D" CONNECTOR SERIES DIMENSIONS FOR BeCu AND STAINLESS STEEL

SS	BeCu	# PINS	A	B	C	D	E	F	G
97-768	97-778	9	1.410 (35.814)	0.980 (24.892)	0.780 (19.812)	0.220 (5.588)	0.440 (11.176)	0.690 (17.526)	0.130 (3.302)
97-769	97-779	15	1.740 (44.196)	1.310 (33.274)	1.110 (28.194)	0.220 (5.588)	0.440 (11.176)	0.690 (17.526)	0.130 (3.302)
97-770	97-780	25	2.280 (57.912)	1.850 (46.990)	1.650 (41.910)	0.220 (5.588)	0.440 (11.176)	0.690 (17.526)	0.130 (3.302)
97-771	97-781	37	2.930 (74.422)	2.500 (63.500)	2.290 (58.166)	0.220 (5.588)	0.440 (11.176)	0.690 (17.526)	0.130 (3.302)
97-772	97-782	50	2.840 (72.136)	2.410 (61.214)	2.110 (53.594)	0.280 (7.112)	0.550 (13.970)	0.800 (20.320)	0.240 (6.096)
97-773	97-783	68	1.800 (45.720)	1.480 (37.592)	1.260 (32.004)	0.080 (2.032)	0.160 (4.064)	0.400 (10.160)	0.090 (2.286)



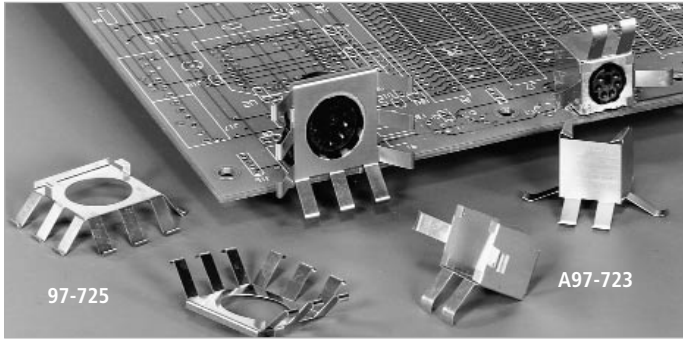
SLOTTED "D" CONNECTOR SHIELDING

SS	BeCu	# Pins	A	B	C	D	E	F	G	Pitch
95-822	97-822	9	1.412 (35.865)	0.984 (24.994)	0.784 (19.914)	0.220 (5.588)	0.440 (11.176)	0.690 (17.526)	0.160 (4.064)	0.718 (18.242)
95-823	97-823	9	1.412 (35.865)	0.984 (24.994)	0.784 (19.914)	0.180 (4.572)	0.360 (9.144)	0.690 (17.526)	0.160 (4.064)	0.178 (4.521)
95-825	97-825	15	1.740 (44.196)	1.312 (33.325)	1.112 (28.245)	0.180 (4.572)	0.360 (9.144)	0.690 (17.526)	0.160 (4.064)	0.175 (4.445)
95-824	97-824	15	1.740 (44.196)	1.312 (33.325)	1.112 (28.245)	0.220 (5.588)	0.360 (9.144)	0.690 (17.526)	0.160 (4.064)	0.175 (4.445)
95-827	97-827	25	2.280 (57.912)	1.852 (47.041)	1.652 (41.960)	0.180 (4.572)	0.360 (9.144)	0.360 (9.144)	0.160 (4.064)	0.174 (4.420)
95-826	97-826	25	2.280 (57.912)	1.852 (47.041)	1.652 (41.960)	0.220 (5.588)	0.440 (11.176)	0.690 (17.526)	0.160 (4.064)	0.174 (4.420)
95-828	97-828	37	2.298 (58.369)	2.500 (63.500)	2.290 (58.166)	0.220 (5.588)	0.440 (11.176)	0.690 (17.526)	0.160 (4.064)	0.184 (4.674)



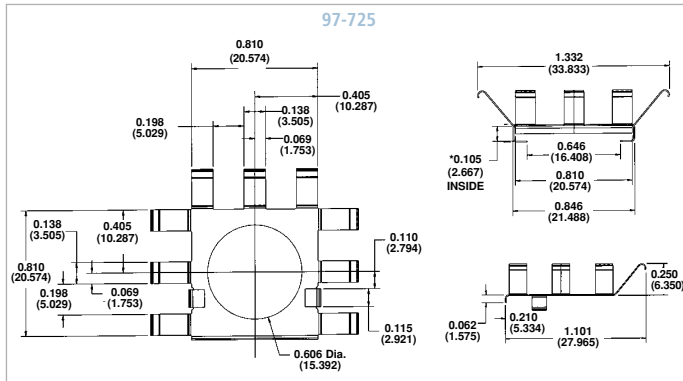
All dimensions shown are in inches (millimeters) unless otherwise specified.

METAL CONNECTOR SHIELDS DIN CONNECTOR SERIES

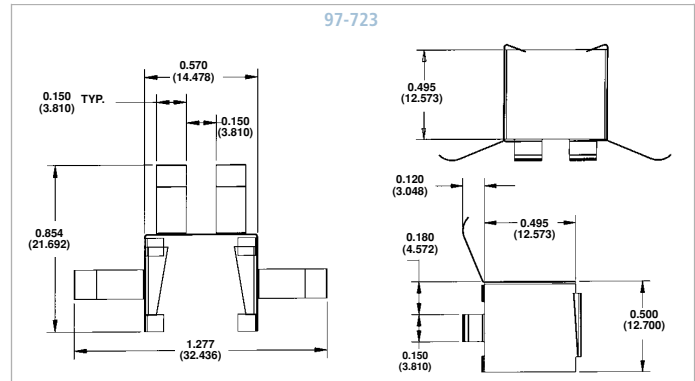


Laird Technologies' DIN Connector Gasket Series is designed to ground connector plugs to the chassis of electronic systems. Manufactured in beryllium copper, these connector gaskets provide excellent conductivity and shielding characteristics.

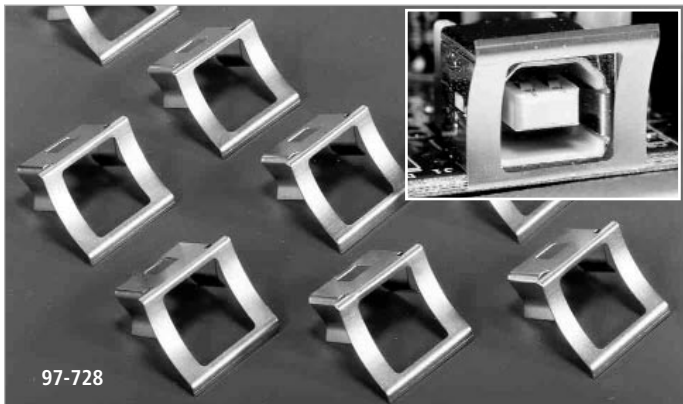
- Available in two sizes to accommodate a variety of DIN connector plugs
- Large compression range between board and chassis
- Wide footprint to accommodate misalignment of plug to chassis opening
- Unique slide-on design for ease of assembly
- Grounds circuit boards, as well as keyboards and audio equipment
- Available in a wide variety of plated finishes, see page 1-11



*97-725 is available without the formed bends or with bends of varying sizes to accommodate your requirements for a variety of connector sizes.

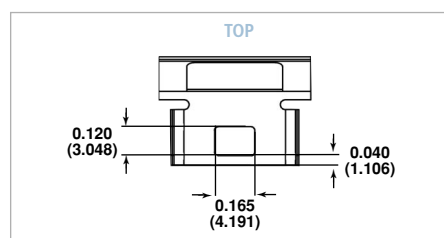
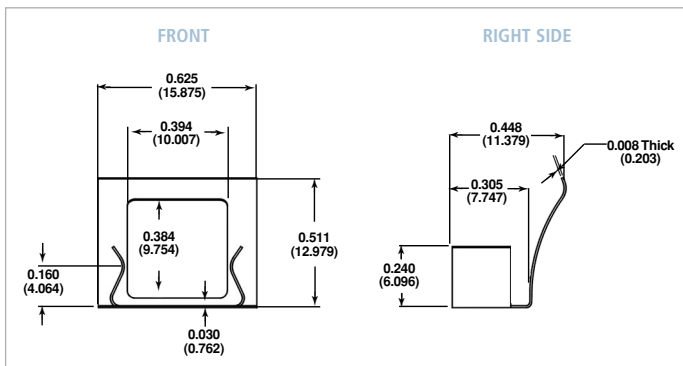


METAL CONNECTOR SHIELDS USB CONNECTOR



Laird Technologies offers the USB (Universal Serial Bus) Type B connector gasket. The unique design easily snaps onto the connector prior to placement on the printed circuit board and fits all Series B USB right angle connector brands. Made from high performance beryllium copper, these gaskets provide superior grounding characteristics and enhances the shielding of the connector due to the short electrical path to the ground plane provided when the gasket makes contact with the connector.

- Gasket easily snaps onto the connector for a secure fit
- Connector/gasket assembly can be placed onto the board via pick-and-place
- High clip force attaches clip to connector body for good electrical contact and secure transport prior to soldering
- Once the shielded connector assembly is soldered to the PCB, the shield is captivated between board and connector and provides reliable contact between the connector and faceplate
- Simple compact design fits within 0.625 in. X 0.625 in. (15.875 mm X 15.875 mm) windows
- Available in a variety of plated finishes



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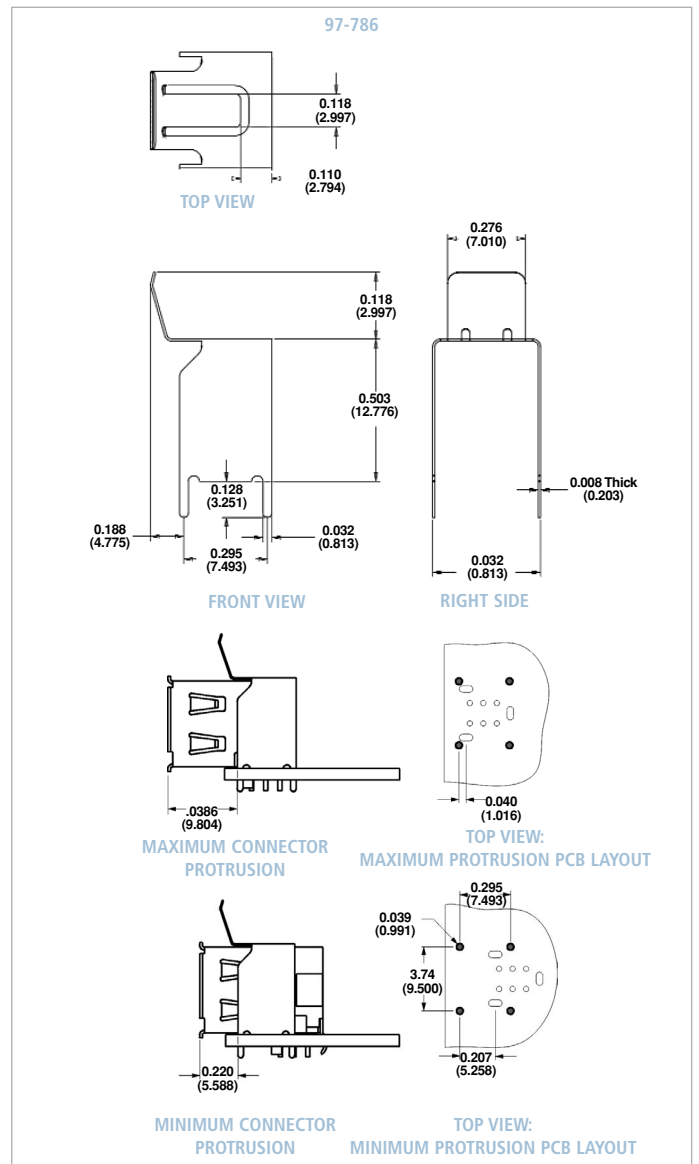
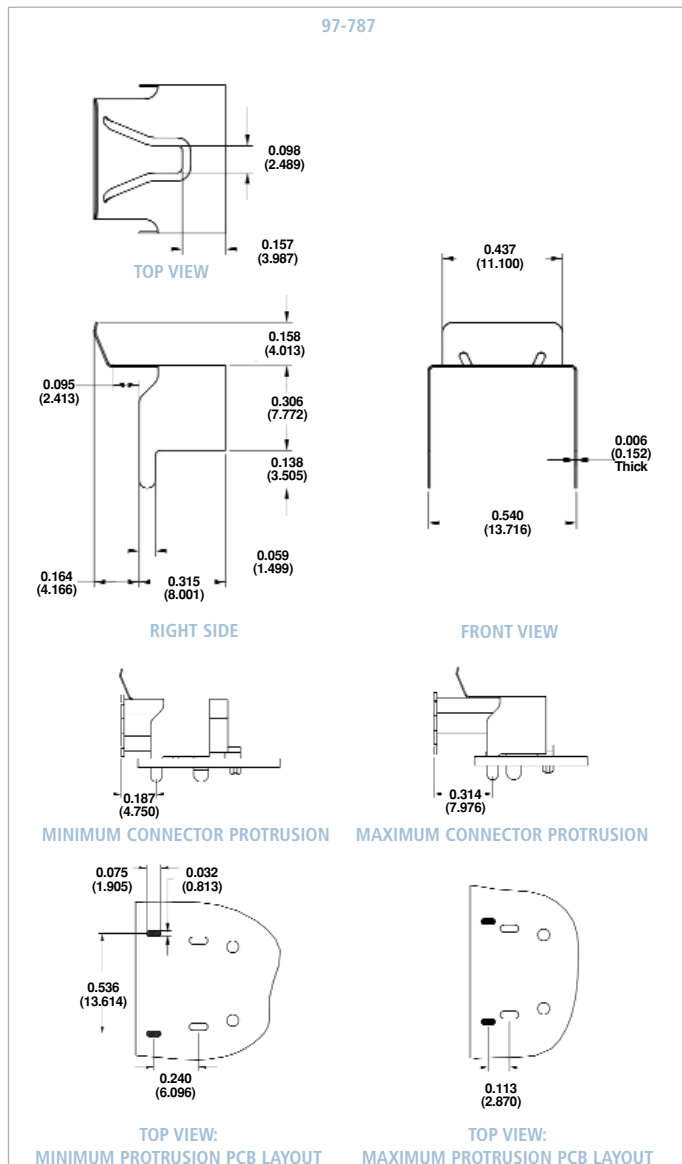
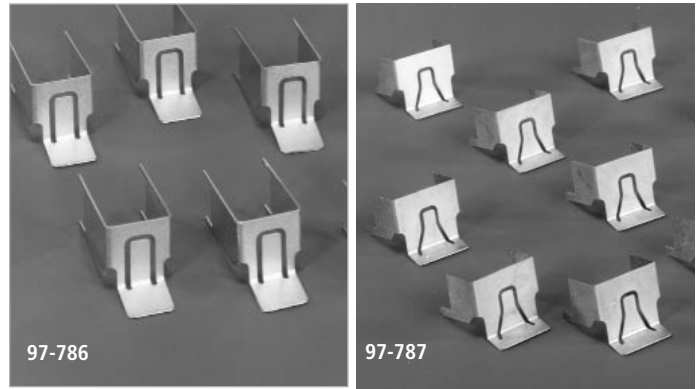
METAL CONNECTOR SHIELDS IEEE 1394 HORIZONTAL CONNECTOR GASKET



Laird Technologies offers an addition to our connector gasket line, part number 97-787, which is designed to fit all IEEE 1394 horizontal connectors. Made from copper beryllium, these gaskets provide superior grounding and reduce emissions from the connector by providing a low-impedance grounding path from the connector shell to the faceplate.

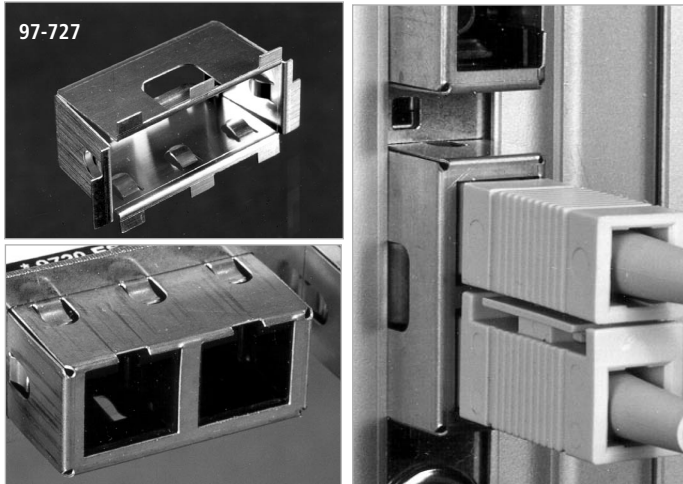
The gasket is mounted over the top of a horizontal IEEE 1394 connector and soldered to the board. Contact with both the faceplate and the connector shell is accomplished once the board is assembled into its housing. These gaskets can be provided in trays to facilitate pick-and-place assembly onto the board and wave soldering automation.

- Accommodates a wide range of connector protrusion positions
- Fits all IEEE 1394 horizontal connectors
- Gasket can be placed onto the printed circuit board via pick-and-place
- Packaging to accommodate high-speed assembly is optional
- Simple thru-pin mounting method
- Grounds the connector to the faceplate
- Available in a variety of plating finishes, see page 1-11



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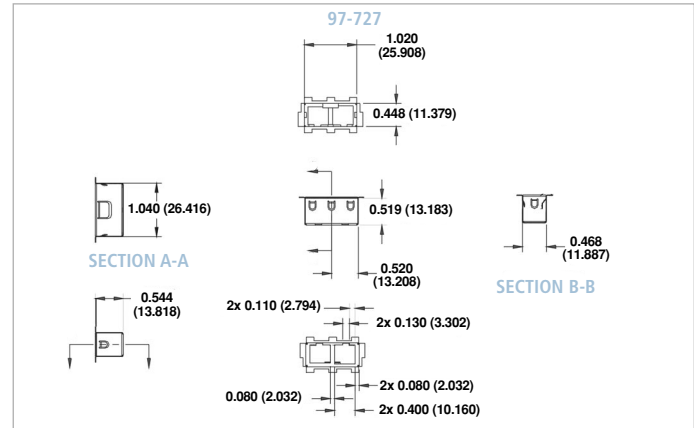
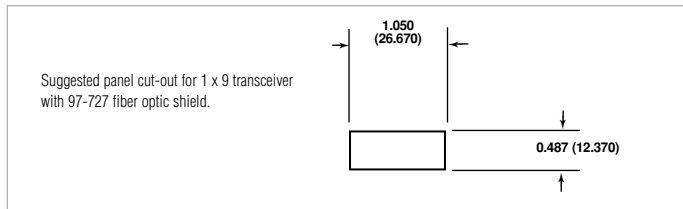
METAL CONNECTOR SHIELDS FIBER OPTIC SHIELD



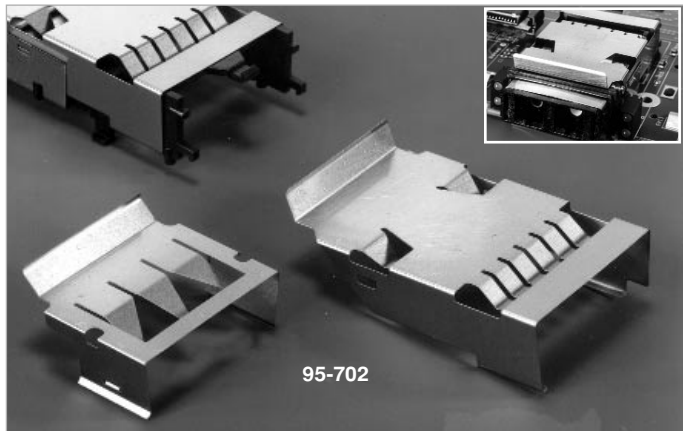
97-727

Laird Technologies provides fiber optic shielding, which provides excellent EMI shielding around the faceplate aperture which houses board mounted fiber optic transceivers. This EMI shield easily fits over the industry standard 1 x 9 style fiber optic transceiver with a duplex SC connector. The shielded transceiver is then inserted into the faceplate.

- Fits all 1 x 9 style fiber optic transceivers with duplex SC connectors
- Provides shielding around the faceplate aperture which houses board-mounted fiber optic transceivers



METAL CONNECTOR SHIELDS GBIC FIBER OPTIC SHIELD



95-702

- Fits most Tyco (AMP) and Methode guide rails common to routers, switches and other network hardware
- Requires no extra mounting holes or solder
- Provided in stainless steel for high galvanic compatibility
- Simple snap-on assembly

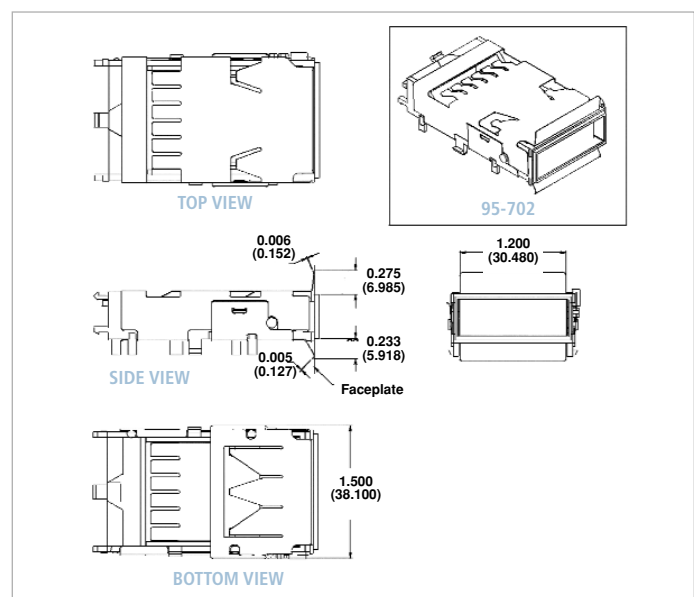
HOW TO ORDER:

To obtain the two piece assembly, order part number 95-702.

Laird Technologies offers the GBIC Shield for reducing emissions from GBIC (GigaBit Interface Converter) fiber optic transceivers. Fiber optic transceivers can be a troublesome source of EMI because they emit high-frequency signals and are located adjacent to large apertures in the enclosure. The GBIC Fiber Optic Shield assembly reduces the radiated emissions from the transceivers by conducting interference current away from the transceiver and onto the enclosure surface.

Simple assembly of the shield is accomplished by snapping the two shield halves onto an uninstalled guide rail assembly. The rail is then mounted onto the printed circuit board in the normal fashion.

Spring finger design on both halves of the GBIC shield provide grounding for both sides of a transceiver module. In addition, the bottom half fingers can provide a low impedance connection to the circuit board ground plane.



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