

The Dual Port Series is a utilization of two connectors, vertically stacked and assembled into a single connector unit, which permits saving of panel and printed board space. Final assembly costs are reduced by condensing two assembly movements into one movement.

Dual Port Series connectors are professional quality connectors recommended for use in sheltered, non-corrosive indoor or outdoor environments having normal ventilation, but without temperature or humidity controls.

Connector contact variants are 9, 15, 25, 37 and 50. Connector genders may be mixed, i.e., one male and one female connector within one Dual Port assembly. The two connectors may be spaced apart to three standard dimensional spacings to accommodate various dimensions of discrete hoods or molded hood assemblies. The connector may also be partially populated with contacts which are installed in the connector body to customer selected contact positions, thereby reducing connector costs.

Dual Port Series connectors are offered with two printed board contact hole patterns. One pattern is dimensional in inches and the other pattern is dimensioned in millimeters. These patterns are commonly known as Inch Footprints and Metric Footprints.

Mounting angle brackets can be ordered riveted to the connector by specifying R2, R6, R7 or R8 options. These options provide for labor saving ease of connector mounting to the printed board and also permit rapid jackscrew installation.

Locking systems are available utilizing 4-40 threaded jackscrew systems, polarized or non-polarized, or with a guick release Vibration Lock System for either front or rear panel mounted connectors.

Dual Port Series connectors comply with the dimensional and performance requirements of IEC 807-2 Performance Level Two and dimensional requirements of MIL-DTL-24308. Dual Port Series connectors also meet the interface connection requirements for EIA RS 232 and RS 449, and the CCITT X.24 recommendations.

MECHANICAL CHARACTERISTICS:

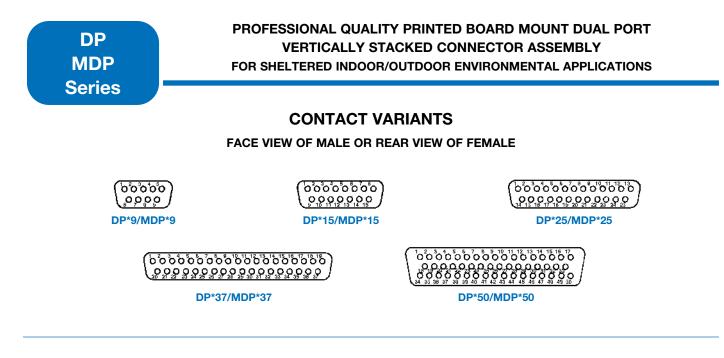
DUAL PORT SERIES TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

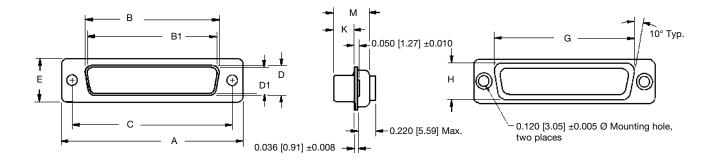
Insulator:	Glass filled polyester per ASTM D5927, Fixed Contacts: UL 94V-0, black color.		Size 20 contacts, male contact – 0.040 inch [1.02 mm] diameter. Female contact				
Contacts:	Male contacts – precision machined brass alloy. Female contacts – precision	 – rugged open entry design. Contact Retention in Insulator: 6 lbs. [27 N]. 					
Contact Plating:	machined high tensile phosphor bronze. Gold flash over nickel plate. Other finishes available upon request.	Contact Terminations:	Printed board mount with 90° terminations supported in footprint pattern by a plastic cross bar.				
Shells:	Steel or brass with tin plate; zinc plate. Other materials and finishes available upon		Termination diameter 0.028 inch [0.71 mm] and 0.024 [0.60 mm].				
	request.	Shells:	Male shells may be dimpled for EMI/ESD ground paths.				
Mounting Spacers and Brackets:	Steel or brass with tin plate; zinc plate.	Polarization:	Trapezoidally shaped shells and polarized jackscrews.				
Push-On Fasteners:	Beryllium copper with tin plate.	Mounting Bracket					
Jackscrew Systems:	Steel with zinc plate, or clear zinc plate.	Riveted to Connector:	Riveted fasteners with 0.120 inch [3.05 mm] diameter clearance hole, 4-40 threads, or 4-40 threads with polyester lock insert.				
Vibration Lock Systems:	Slide lock and lock tabs, steel with nickel plate.						
ELECTRICAL CHARACTERISTICS:		Mounting to Printed Board:	Rapid installation push-on fasteners.				
Contact Current Rating:	5 amperes.	Locking Systems:	Jackscrews and vibration locking				
Initial Contact Resistance:	0.008 ohms maximum.		systems for either front or rear panel mounted connectors.				
Proof Voltage:	1,000 V r.m.s.	Mechanical Operations:	500 operations minimum per IEC 512-5.				
Insulator Resistance:	5 G ohms.	Mechanical Operations.	ou operations minimum per IEC 312-3.				
Clearance and Creepage Distance [minimum]:	0.039 inch [1.0 mm].	CLIMATIC CHARACTI Temperature Range:	ERISTICS: -55°C to +125°C.				
Working Voltage:	300 V r.m.s.	Damp Heat, Steady State:	10 days.				



Positronic



STANDARD SHELL ASSEMBLY

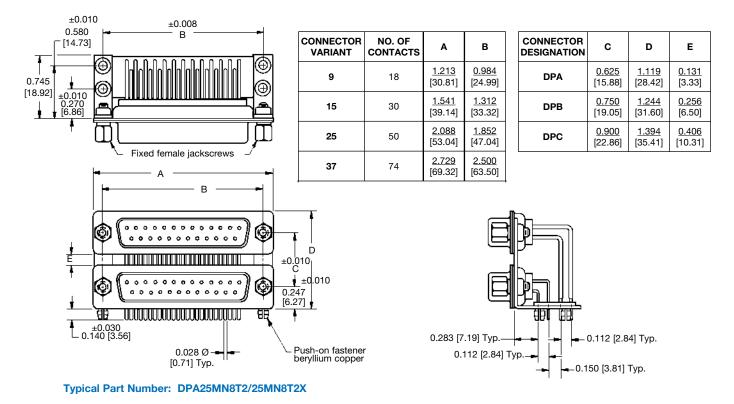


CONNECTOR VARIANT SIZES	A ±0.015	B ±0.005	B1 ±0.005	C ±0.005	D ±0.005	D1 ±0.005	E ±0.015	G ±0.010	H ±0.010	K ±0.005	M ±0.010
9 M	<u>1.213</u> [30.81]		<u>0.666</u> [16.92]	<u>0.984</u> [24.99]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
9 F	<u>1.213</u> [30.81]	<u>0.643</u> [16.33]		<u>0.984</u> [24.99]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
15 M	<u>1.541</u> [39.14]		<u>0.994</u> [25.25]	<u>1.312</u> [33.32]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>1.083</u> [27.51]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
15 F	<u>1.541</u> [39.14]	<u>0.971</u> [24.66]		<u>1.312</u> [33.32]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>1.083</u> [27.51]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
25 M	<u>2.088</u> [53.04]		<u>1.534</u> [38.96]	<u>1.852</u> [47.04]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>1.625</u> [41.28]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
25 F	<u>2.088</u> [53.04]	<u>1.511</u> [38.38]		<u>1.852</u> [47.04]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>1.625</u> [41.28]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
37 M	<u>2.729</u> [69.32]		<u>2.182</u> [55.42]	<u>2.500</u> [63.50]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>2.272</u> [57.71]	<u>0.422</u> [10.72]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
37 F	<u>2.729</u> [69.32]	<u>2.159</u> [54.84]		<u>2.500</u> [63.50]	<u>0.311</u> [7.90]		<u>0.494</u> [12.55]	<u>2.272</u> [57.71]	<u>0.422</u> [10.72]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]
50 M	<u>2.635</u> [66.93]		<u>2.079</u> [52.81]	<u>2.406</u> [61.11]		<u>0.441</u> [11.20]	<u>0.605</u> [15.37]	<u>2.178</u> [55.32]	<u>0.534</u> [13.56]	<u>0.230</u> [5.84]	<u>0.426</u> [10.82]
50 F	<u>2.635</u> [66.93]	<u>2.064</u> [52.43]		<u>2.406</u> [61.11]	<u>0.423</u> [10.74]		<u>0.605</u> [15.37]	<u>2.178</u> [55.32]	<u>0.534</u> [13.56]	<u>0.243</u> [6.17]	<u>0.429</u> [10.90]



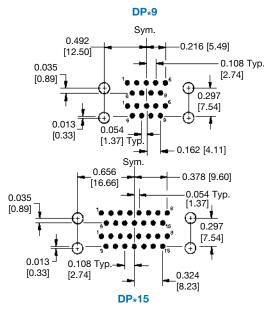
90° PRINTED BOARD MOUNT CONNECTOR

4 ROW CONNECTOR UNIT, 0.283 [7.19] CONTACT EXTENSION

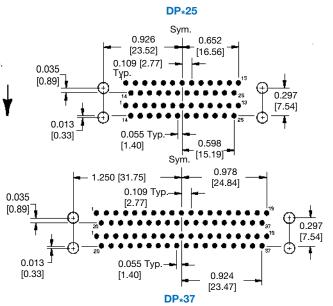


CONTACT HOLE PATTERN

Hole identification shown is for male connector, use mirror image for female connector. Mount connector with mating face positioned to follow direction of arrow.



DIMENSIONS ARE IN INCHES [MILLIMETERS]. ALL DIMENSIONS ARE SUBJECT TO CHANGE.



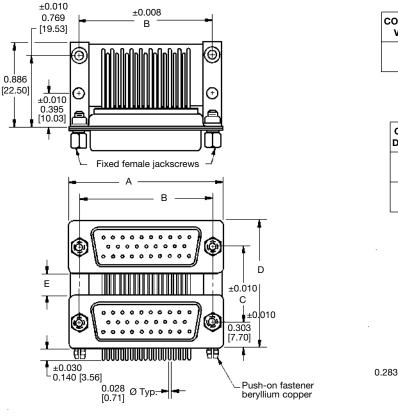
Mounting holes must move 0.020 ± 0.010 [0.51] opposite direction of arrow for use of unriveted mounting bracket with connectors.

Suggest 0.045 \pm 0.002 [1.14] Ø hole for contact termination positions. Suggest 0.123 \pm 0.003 [3.12] Ø hole for mounting connector with push-on fasteners.

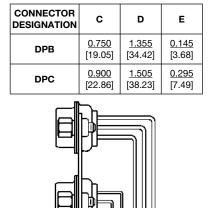
3

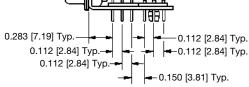
90° PRINTED BOARD MOUNT CONNECTOR

6 ROW CONNECTOR UNIT, 0.283 [7.19] CONTACT EXTENSION



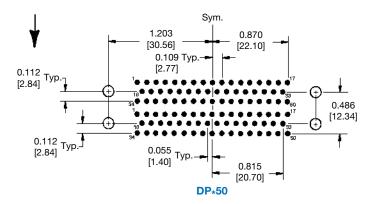
CONNECTOR VARIANT	NO. OF CONTACTS	Α	в
50	100	<u>2.635</u> [66.93]	<u>2.406</u> [61.11]





CONTACT HOLE PATTERN

Hole identification shown is for male connector, use mirror image for female connector. Mount connector with mating face positioned to follow direction of arrow.



Suggest 0.045 \pm 0.002 [1.14] Ø hole for contact termination positions.

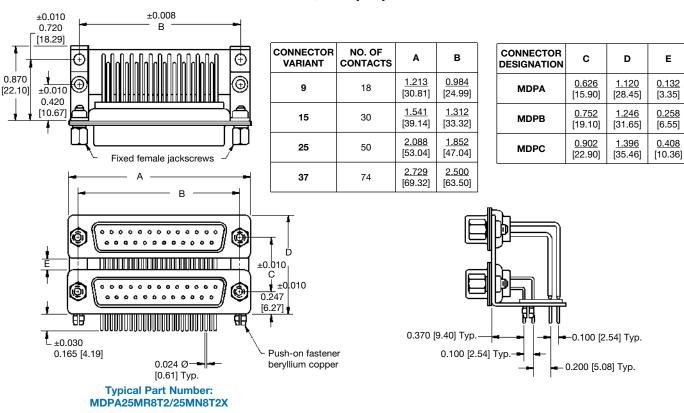
Suggest 0.123 ±0.003 [3.12] Ø hole for mounting connector with push-on fasteners.

Mounting holes must move 0.020 \pm 0.010 [0.51] opposite direction of arrow for use of unriveted mounting bracket with connectors.

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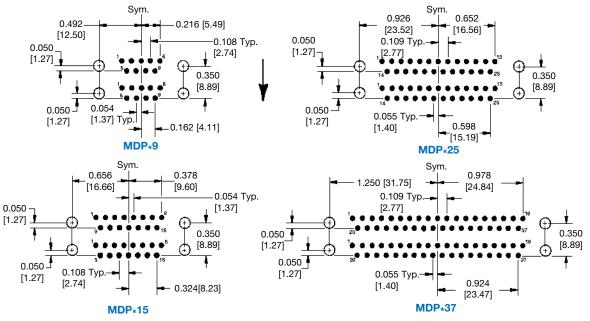
METRIC SYSTEM 90° PRINTED BOARD MOUNT CONNECTOR



4 ROW CONNECTOR UNIT, 0.370 [9.40] CONTACT EXTENSION

METRIC SYSTEM CONTACT HOLE PATTERN

Hole identification shown is for male connector, use mirror image for female connector. Mount connector with mating face positioned to follow direction of arrow.



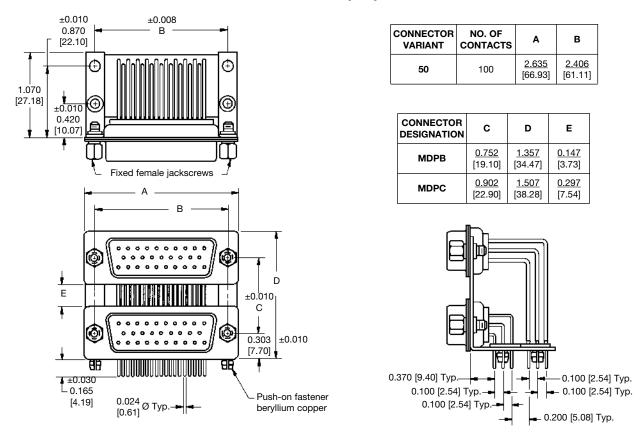
DIMENSIONS ARE IN INCHES [MILLIMETERS]. ALL DIMENSIONS ARE SUBJECT TO CHANGE.

Suggest 0.039 ±0.002 [1.00] Ø hole for contact termination positions. Suggest 0.123 ±0.003 [3.12] Ø hole for mounting connector with push-on fasteners.

5

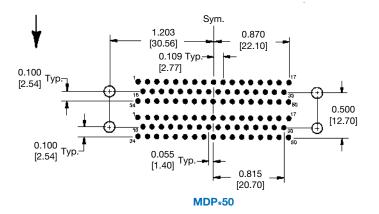
METRIC SYSTEM 90° PRINTED BOARD MOUNT CONNECTOR

6 ROW CONNECTOR UNIT, 0.370 [9.40] CONTACT EXTENSION



METRIC SYSTEM CONTACT HOLE PATTERN

Hole identification shown is for male connector, use mirror image for female connector. Mount connector with mating face positioned to follow direction of arrow.

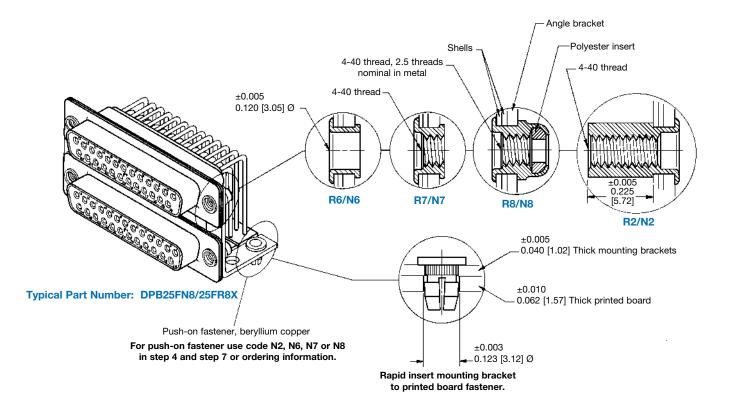


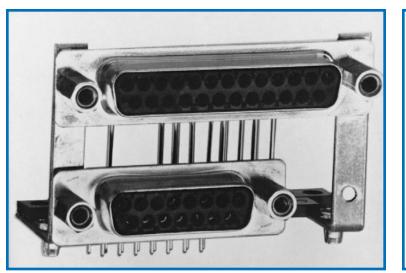
Suggest 0.039 ±0.002 [1.00] Ø hole for contact termination positions. Suggest 0.123 ±0.003 [3.12] Ø hole for mounting connector with push-on fasteners.

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RIVETED ON MOUNTING BRACKETS AND PUSH-ON FASTENER





DPA25FR7T/15FN7T0



DPA25FR8/25FR8X

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PROFESSIONAL QUALITY PRINTED BOARD MOUNT DUAL PORT VERTICALLY STACKED CONNECTOR ASSEMBLY FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

