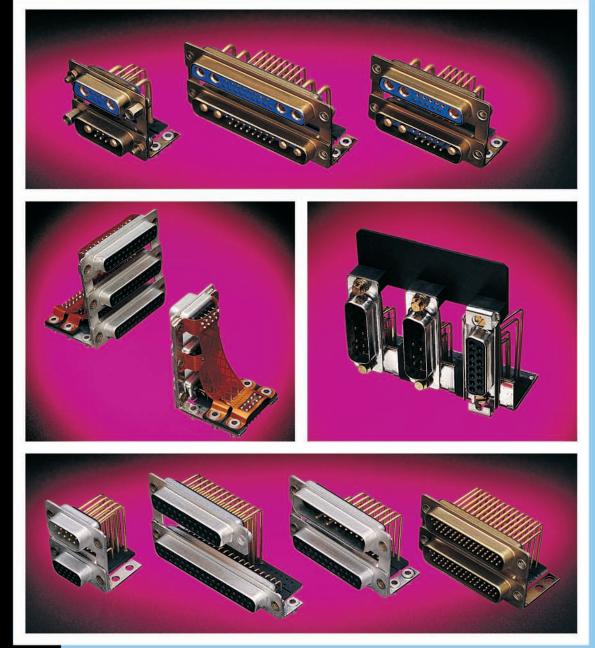


POSITRONIC INDUSTRIES

Dual Port Connectors







ABOUT US

Founded in 1966, Positronic Industries is a vertically integrated manufacturer of high quality interconnect products. Positronic has earned the worldwide reputation as a service oriented, quick-reaction, top quality connector supplier. We are committed to maintaining this reputation by continuous implementation of our **Complete Capability** concept.

COMPLETE CAPABILITY

Design & Development

- · Designs new connectors and modifies existing connectors to meet industry requirements
- Continuously conducts marketing studies to identify industry needs for new products
- Ongoing interest in unique connector designs

Tooling

- Tooling support for all manufacturing areas within company
- Provides 80% of new tooling, punch press dies, molds, jigs and fixtures used at Positronic factory locations worldwide

Machining

- Automatic screw machines produce finely crafted contacts and hardware for connector bodies
- Trained technicians operate machines from Tornos, Bechler and Brown & Sharpe

Molding

- · Molds all plastic connector components such as insulators, hoods, angle brackets and more
- Overmold capability available

Plating

- · Applies gold and other metal finishes to connector components to any required thickness
- Plating conforms to all military specifications

Quality Assurance Lab

- Quality assurance system certified to ISO 9001
- Maintains aggressive TQM program
- Able to test to IEC, EIA, UL, MIL-DTL-24308, MIL-DTL-28748, MIL-C-39029 and MIL-C-85049 requirements

Finished Stock Inventory

- · Each main factory location maintains a large inventory of connector components and accessories
- · Same day shipments available on many standard connector products
- Stocking agreements available for qualified customers

Worldwide Sales & Service

- · Responsive attitude toward customer needs
- · Fully trained sales staff located worldwide

Machining



Molding



Finished Stock Inventory

Products described within this catalog may be protected by one or more of the following US. patents: #4,721,472 #4,900,261 #5,255,580 #5,329,697 #6,260,268 #6,835,079 Patented in Canada, 1992 Other Patents Pending Unless otherwise specified, dimensional tolerances are:

- 1] ±0.001 inches [0.03 mm] for male contact mating diameters.
- 2] ±0.003 inches [0.08 mm] for contact termination diameters.
- 3] ±0.005 inches [0.13 mm] for all other diameters.
- 4] ±0.015 inches [0.38 mm] for all other dimensions.

Positronic Industries believes the data contained herein to be reliable. Since the technical information is given free of charge, the User employs such information at his own discretion and risk. Positronic Industries assumes no responsibility for results obtained or damages incurred from use of such information in whole or in part.



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Dual Port Series

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

Size 20 Contacts, **Two Connectors Vertically** Stacked and Assembled As a Single Connector Unit

Professional Quality Connectors IEC Publication 807-2 Performance Level Two U.L. Recognized **CSA Recognized**

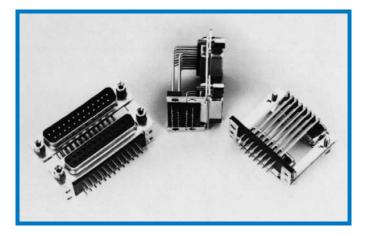
File #E49351

File #LR54219 Telecommunication U.L. File #14098

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, 29, 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.

DUAL PORT SERIES TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator:	Nylon resin, UL 94V-0, black color.
Contacts:	Male contacts – precision machined brass alloy. Female contacts – precision machined high tensile phosphor bronze.
Contact Plating:	Gold flash over nickel plate. Other finishes available upon request.
Shells:	Steel or brass with tin plate; zinc plate with dichromate seal. Other materials and finishes available upon request.
Mounting Spacers and Brackets:	Steel or brass with tin plate; zinc plate with dichromate seal.
Cross Bar:	Nylon resin, UL 94V-0, black color.
Push-On Fasteners:	Beryllium copper with tin plate.
Jackscrew Systems:	Steel with zinc plate and dichromate seal, or clear zinc plate.
Vibration Lock Systems:	Slide lock and lock tabs, steel with nickel plate.

ELECTRICAL CHARACTERISTICS:

Contact Current Rating: Initial Contact Resistance: 0.008 ohms maximum. **Proof Voltage:** Insulator Resistance: **Clearance and Creepage** Distance [minimum]: Working Voltage:

5 amperes. 1.000 V r.m.s. 5 G ohms. 0.039 inch [1.0 mm].

300 V r.m.s.

MECHANICAL CHARACTERISTICS: Fixed Contacts: Size 20 contacts, male contact - 0.040 inch [1.02 mm] diameter. Female contact

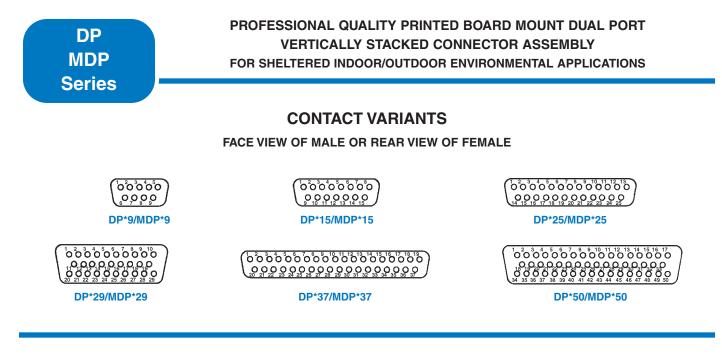
	 rugged open entry design.
Contact Retention in Insulator:	6 lbs. [27 N].
Contact Terminations:	Printed board mount with 90° termina- tions supported in footprint pattern by a plastic cross bar. Termination diameter 0.028 inch [0.71 mm] and 0.024 [0.60 mm].
Shells:	Male shells may be dimpled for EMI/ESD ground paths.
Polarization:	Trapezoidally shaped shells and polar- ized jackscrews.
Mounting Bracket	
Riveted to Connector:	Riveted fasteners with 0.120 inch [3.05 mm] diameter clearance hole, 4-40 threads, or 4-40 threads with nylon lock insert.
Mounting to Printed Board:	Rapid installation push-on fasteners.
Locking Systems:	Jackscrews and vibration locking sys- tems for either front or rear panel mount- ed connectors.
Mechanical Operations:	500 operations minimum per IEC 512-5.
	DIOTIOO

CLIMATIC CHARACTERISTICS:

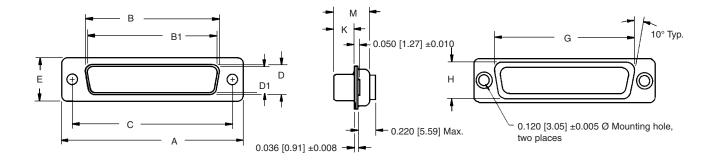
Temperature Range: Damp Heat, Steady State: 10 days.

-55°C to +125°C.

Positronic Industries. Inc.



STANDARD SHELL ASSEMBLY



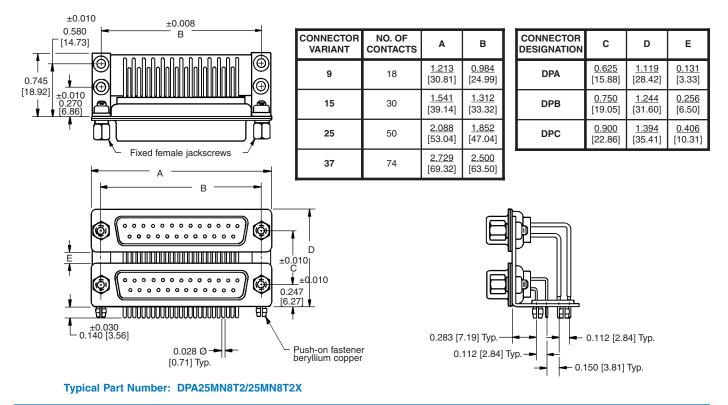
CONNECTOR VARIANT SIZES	A ±0.015	B ±0.005	B1 ±0.005	C ±0.005	D ±0.005	D1 ±0.005	E ±0.015	G ±0.010	H ±0.010	K ±0.005	M ±0.010
9 M	<u>1.213</u> [30.81]		<u>0.666</u> [16.92]	<u>0.984</u> [24.99]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</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]
29 M	<u>1.770</u> [44.96]		<u>1.274</u> [32.36]	<u>1.534</u> [38.96]		<u>0.450</u> [11.43]	<u>0.605</u> [15.37]	<u>1.322</u> [33.58]	<u>0.539</u> [13.69]	<u>0.217</u> [5.51]	<u>0.426</u> [10.82]
29 F	<u>1.770</u> [44.96]	<u>1.251</u> [31.78]		<u>1.534</u> [38.96]	<u>0.431</u> [10.95]		<u>0.605</u> [15.37]	<u>1.322</u> [33.58]	<u>0.539</u> [13.69]	<u>0.237</u> [6.02]	<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]

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



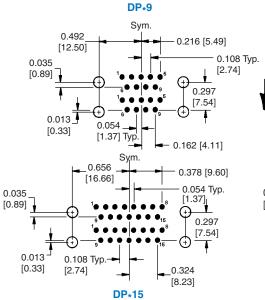
90° PRINTED BOARD MOUNT CONNECTOR

4 ROW CONNECTOR UNIT, 0.283 [7.19] CONTACT EXTENSION



CONTACT HOLE PATTERN

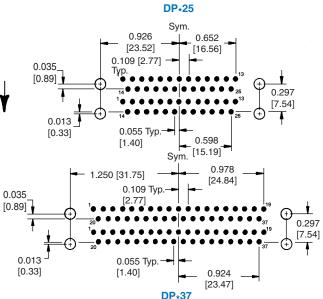
Hole identification shown is for male connector, use mirror image for female connector. Mount connector with mating face positioned to follow direction of arrow.



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

Industries, Inc.

Positronic



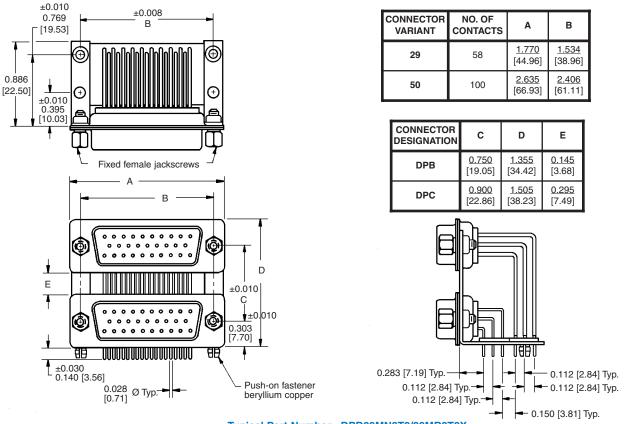
Mounting holes must move 0.020 ± 0.010 [0.51] opposite direction of arrow for use of unriveted mounting bracket with connectors.

Suggest 0.045 ±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.

p

90° PRINTED BOARD MOUNT CONNECTOR

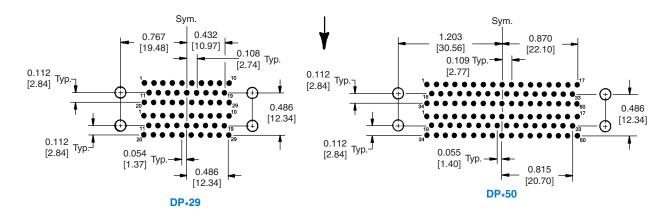
6 ROW CONNECTOR UNIT, 0.283 [7.19] CONTACT EXTENSION



Typical Part Number: DPB29MN8T2/29MR8T2X

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 \pm 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.

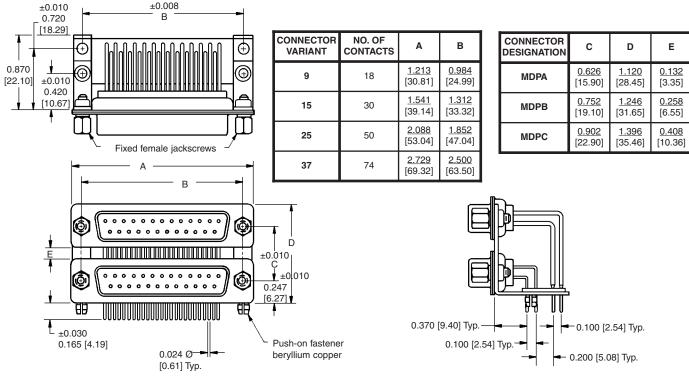
DIMENSIONS ARE IN INCHES [MILLIMETERS]. ALL DIMENSIONS ARE SUBJECT TO CHANGE.



4

METRIC SYSTEM 90° PRINTED BOARD MOUNT CONNECTOR

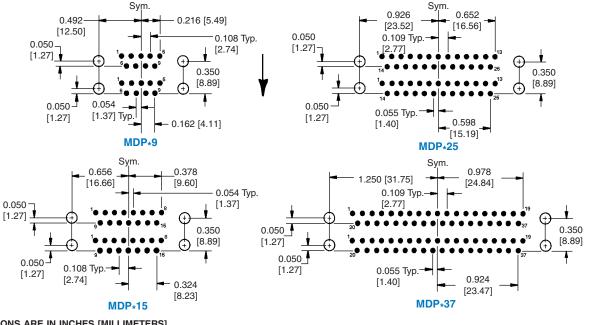
4 ROW CONNECTOR UNIT, 0.370 [9.40] CONTACT EXTENSION



Typical Part Number: MDPA25MR8T2/25MN8T2X

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.



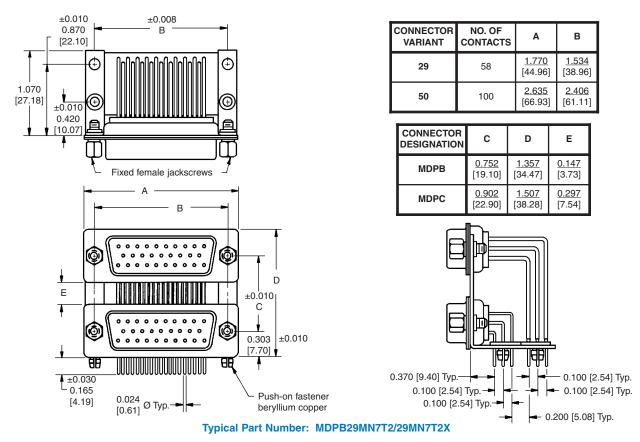
DIMENSIONS ARE IN INCHES [MILLIMETERS]. ALL DIMENSIONS ARE SUBJECT TO CHANGE.

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.

Positronic Industries, Inc.

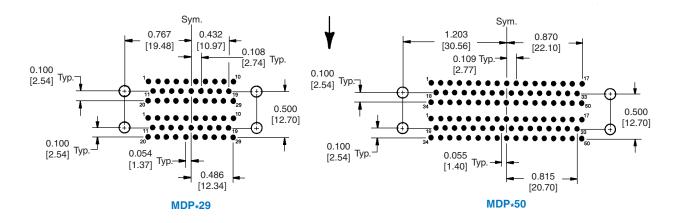
METRIC SYSTEM 90° PRINTED BOARD MOUNT CONNECTOR

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.

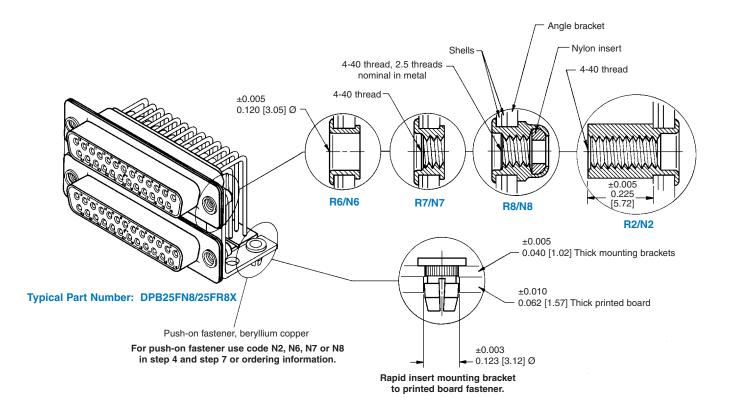


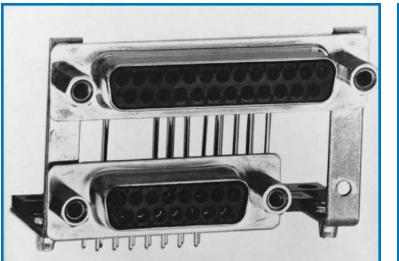
Suggest 0.039 \pm 0.002 [1.00] Ø hole for contact termination positions. Suggest 0.123 \pm 0.003 [3.12] Ø hole for mounting connector with push-on fasteners.

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



RIVETED ON MOUNTING BRACKETS AND PUSH-ON FASTENER





DPA25FR7T/15FN7T0



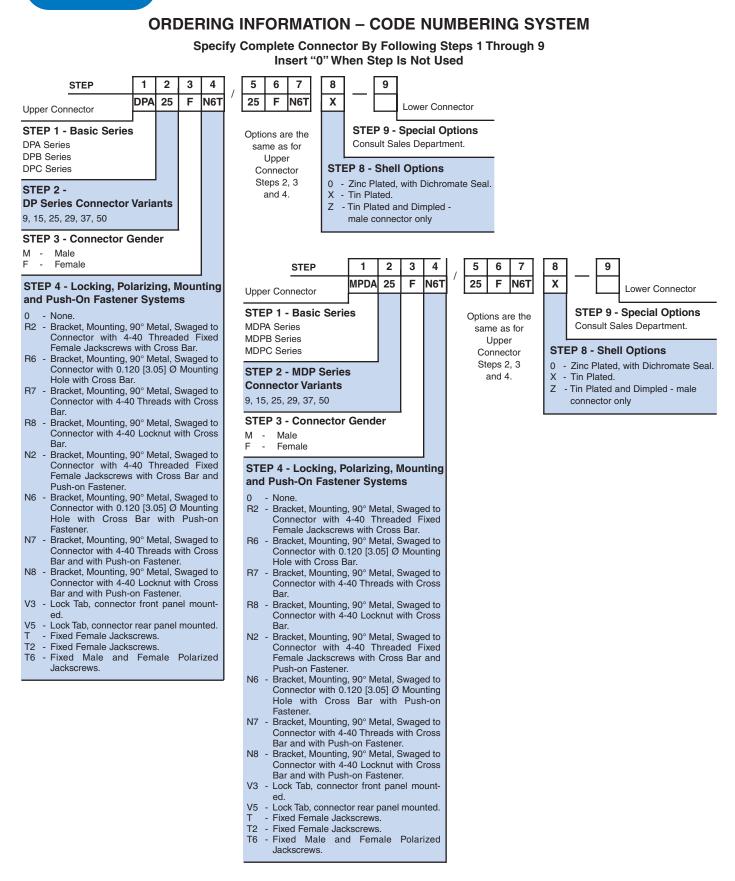
DPA25FR8/25FR8X

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

7



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



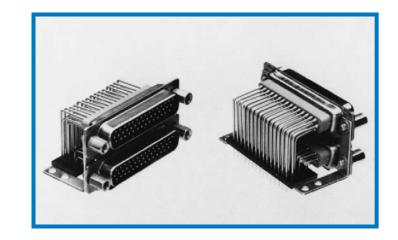


High Density Dual Port Series

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

Size 22 Contacts, **Two Connectors Vertically** Stacked and Assembled As a Single Connector Unit **Professional Quality** Connectors U.L. Recognized File #E49351 CSA Recognized File #LR54219

> **Telecommunication** U.L. File #14098



High Density Dual Port Series connectors utilize two high density connectors vertically stacked and assembled into a single connector unit, which permits saving of panel and printed board space, and decreases final assembly costs.

High Density Dual Port Series connectors are professional quality connectors recommended for use in sheltered, noncorrosive indoor and outdoor environments having normal ventilation.

Connector contact variants are 15, 26, 44 and 62. Connector genders can be mixed, i.e., one male and one female connector within one High Density Dual Port assembly. The two connectors may be spaced apart to three standard dimensional spacings. The connector may also be partially populated with contacts which are installed in the connector body to customer selected contact positions.

Mounting angle brackets can be ordered riveted to the connector by specifying R2, R6, R7 or R8 options. Locking systems are available utilizing 4-40 threaded jackscrew systems, polarized or non-polarized, or with a quick release Vibration Lock System for either front or rear panel mounted connectors.

High Density Dual Port Series connectors comply with the dimensional requirements of MIL-DTL-24308.

HIGH DENSITY DUAL PORT SERIES TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator:	Glass-filled polyester per MIL-M-24519, UL 94V-0. Black color.					
Contacts:	Male and female contacts – precision machined high tensile phosphor bronze.					
Contact Plating:	Gold flash over nickel plate. Other finishes available upon request.					
Shells:	Steel with tin plate, or zinc plate with dichromate seal. Other materials and finishes available upon request.					
Mounting Spacers						
and Brackets:	Steel or brass with tin plate, or zinc with dichromate seal.					
Cross Bar:	Nylon resin, UL 94V-0, black color.					
Push-On Fasteners:	Beryllium copper with tin plate.					
Jackscrew Systems:	Steel with zinc plate and dichromate seal, or clear zinc plate.					
Vibration Lock Systems:	Lock tabs, steel with nickel plate.					

Vibration Lock Systems:

ELECTRICAL CHARACTERISTICS: Contact Current Rating:

Initial Contact Resistance: 0.010 ohms maximum. **Proof Voltage: Insulator Resistance: Clearance and Creepage** Distance [minimum]: Working Voltage:

3 amperes. 1,000 V r.m.s. 5 G ohms. 0.039 inch [1.0 mm]. 300 V r.m.s.

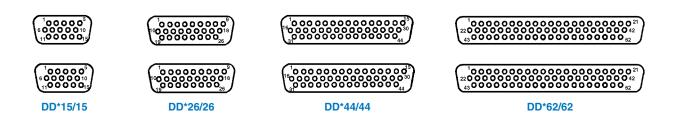
MECHANICAL CHARACTERISTICS:

Fixed Contacts:	Size 22 contact, male contact – 0.030 inch [0.76 mm] diameter. Female contact – rugged open entry design.
Contact Retention in Insulator:	7 lbs. [31 N].
Contact Terminations:	Printed board mount with 90° termina- tions supported in footprint pattern by a plastic cross bar. Termination diameter 0.020 inch [0.51 mm].
Shells:	Male shells may be dimpled for EMI/ESD ground paths.
Polarization:	Trapezoidally shaped shells and polar- ized jackscrews.
Mounting Bracket	
Riveted to Connector:	Riveted fasteners with 0.120 inch [3.05 mm] diameter clearance hole, 4-40 threads, or 4-40 threads with nylon lock insert.
Mounting to Printed Board:	Rapid installation push-on fasteners.
Locking Systems:	Jackscrews and vibration locking sys- tems for either front or rear panel mount- ed connectors.
Mechanical Operations:	500 operations minimum per IEC 512-5.
CLIMATIC CHARACTE	RISTICS:

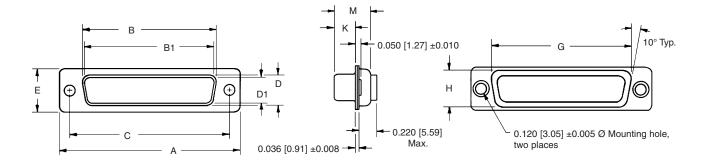
Temperature Range: -55°C to +125°C.

CONTACT VARIANTS

FACE VIEW OF MALE OR REAR VIEW OF FEMALE



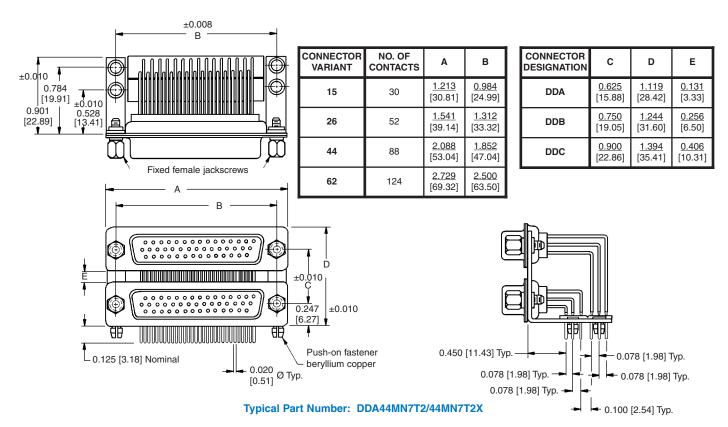
STANDARD SHELL ASSEMBLY

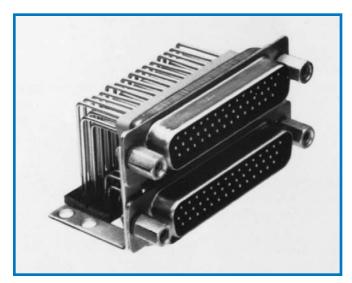


CONNECTOR VARIANT SIZES	A ±0.015	B ±0.005	B1 ±0.005	C ±0.005	D ±0.005	D1 ±0.005	E ±0.015	G ±0.010	H ±0.010	K ±0.005	M ±0.010
15M/15M	<u>1.213</u> [30.81]		<u>0.666</u> [16.92]	<u>0.984</u> [24.99]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
15F/15F	<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]
26M/26M	<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]
26F/26F	<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]
44M/44M	<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]
44F/44F	<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]
62M/62M	<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]
62F/62F	<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]

90° PRINTED BOARD MOUNT CONNECTOR

6 ROW CONNECTOR UNIT, 0.450 [11.43] CONTACT EXTENSION





DDA44MR7T/44MR7T0



DIMENSIONS ARE IN INCHES [MILLIMETERS]. ALL DIMENSIONS ARE SUBJECT TO CHANGE. **DD*15 MALE OVER MALE CONNECTOR**

0.984

[24 99]

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

PRINTED BOARD CONTACT HOLE PATTERN

Mount connector with mating face positioned to follow direction of arrows.

Ę ହ 0.190 [4.83] 0.190 [4.83] 0 4 9 2 0.492 [12.50] [12.50] 0.078 [1.98] Typ. 0.078 [1.98] Typ. . . • 0.256 ŧ 0.256 [6.50] [6.50] 5**0 0 0 0 0** Œ 0.100 0.100 [2.54] [2.54] 0.090 [2.29] Typ. -0.090 [2.29] Typ **DD*26 FEMALE OVER FEMALE CONNECTOR DD*26 MALE OVER MALE CONNECTOR** 1.312 1.312 [33.32] Ç [33.32] 0.380 0.380 [9.65] [9.65] 0.656 0.656 [16.66] [16.66] 0.078 [1.98] Typ. 0.078 [1.98] Typ. ŧ 1<u>9</u> Æ 0.256 0.256 26 🐽 [6.50] [6.50] 10 \oplus 10 19 **a** 19 0.100 [2.54] - 0.090 [2.29] Typ. 0.090 [2.29] Typ.⊣ **DD***44 MALE OVER MALE CONNECTOR **DD***44 FEMALE OVER FEMALE CONNECTOR 1.852 1.852 [47.04] [47.04] ହ ¢ 0.650 0.650 0 078 0.078 [16.51] [16.51] [1.98] 0.926 [1.98] 0.926 Typ. [23.52] Тур. [23.52] 0.256 Ť 0.256 ŧ [6.50] [<u>6.5</u>0] क़ 0.100 -0.100 [2.54] [2.54] 0.090 [2.29] Typ. 0.090 [2.29] Typ. **DD+62 MALE OVER MALE CONNECTOR DD*62 FEMALE OVER FEMALE CONNECTOR** 2.500 2.500 [63.50] [63.50] ç 0.973 0.973 0.078 0.078 [24.71] [24.71] [1.98] 1.250 1 250 [1.98] [31.75] Тур. [31.75] Typ. 1 0.256 Æ 11 0.256 [6.50] [6.50]

Mounting hole must move 0.020 [0.51] opposite direction of the arrow for use of unriveted mounting brackets with connectors.

🕶 0.095 [2.41] Typ.

Suggest 0.035 ±0.002 [0.89] Ø hole for contact termination positions.

0.100 [2.54]

Suggest 0.123 ±0.003 [3.12] Ø hole for mounting connector with push-on fasteners. The * signifies either a DDA, DDB or DDC connector type.

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

• 0.095 [2.41] Typ.

DD*15 FEMALE OVER FEMALE CONNECTOR

0 984

[24.99]



12

÷

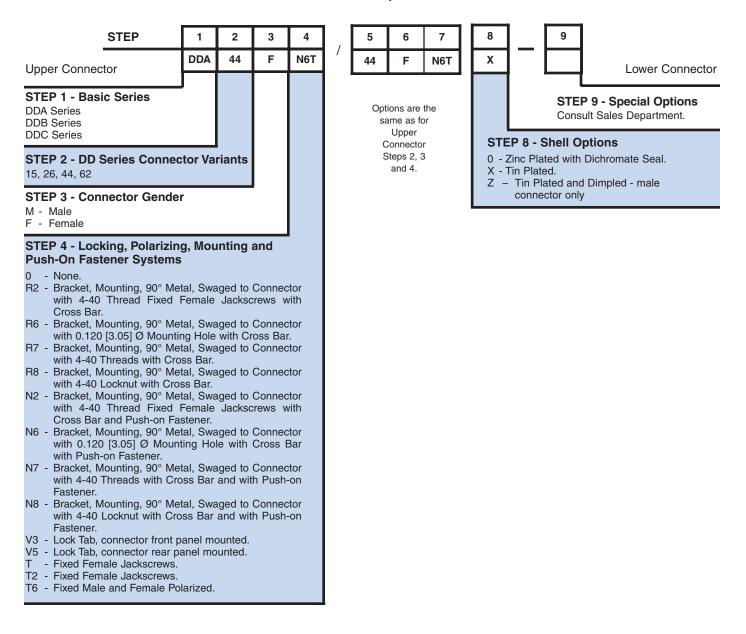
0.100

[2.54]

ORDERING INFORMATION – CODE NUMBERING SYSTEM

Specify Complete Connector By Following Steps 1 Through 9

Insert "0" When Step Is Not Used



Mixed Density Dual Port Series

Size 20 and 22 Contacts Two Connectors Vertically Stacked and Assembled As a Single Connector Unit Professional Quality Connectors U.L. Recognized File #E49351 CSA Recognized File #LR54219

> Telecommunication U.L. File #14098

Mixed Density Dual Port Series connectors utilize one standard density connector and one high density connector, vertically stacked and assembled into a single connector unit. This single connector unit permits saving of panel and printed board space and decreases final assembly costs.

Mixed Density Dual Port Series connectors are professional quality connectors recommended for use in sheltered, noncorrosive indoor and outdoor environments having normal ventilation.

Connector contact variants are the normal density over a high density connector: 9 over 15, 15 over 26, 25 over 44 and 37 over 62. Connector genders can be mixed, i.e., one male and one female connector within one Mixed Density Dual Port assembly. The two connectors may be spaced apart to three standard dimensional spacings. The connector may also be partially populated with contacts which are installed in the connector body to customer selected contact positions.

Mounting angle brackets can be ordered riveted to the connector by specifying R2, R6, R7 or R8 options. Locking systems are available utilizing 4-40 threaded jackscrew systems, polarized or non-polarized, or with a quick release Vibration Lock System for either front or rear panel mounted connectors.

Mixed Density Dual Port Series connectors comply with the dimensional requirements of MIL-DTL-24308.

MIXED DENSITY DUAL PORT SERIES TECHNICAL CHARACTERISTICS

MATERIALS AND FINISHES:

Insulator:	Glass-filled polyester per MIL-M-24519, UL 94V-0 for high density connectors and nylon resin, UL 94V-0 for standard density connectors. Black color.	Fi
Contacts:	Male contacts – precision machined copper alloy. Female contacts – preci- sion machined high tensile phosphor bronze.	Ca Ca
Contact Plating:	Gold flash over nickel plate. Other finishes available upon request.	
Shells:	Steel with tin plate, or zinc plate with dichromate seal. Other materials and finishes available upon request.	Sł
Mounting Spacers		Po
and Brackets:	Steel or brass with tin plate, or zinc with dichromate seal.	
Cross Bar:	Nylon resin, UL 94V-0, black color.	Mo Riv
Push-On Fasteners:	Beryllium copper with tin plate.	
Jackscrew Systems:	Steel with zinc plate and dichromate seal, or clear zinc plate.	
Vibration Lock Systems:	Lock tabs, steel with nickel plate.	Mo
	· · · · · · · · · · · · · · · · · · ·	Lc
ELECTRICAL CHARAC	CTERISTICS:	

Contact Current Rating:5 amperes for standard density
connectors. 3 amperes for high
density connectors.Initial Contact Resistance:0.010 ohms maximum.Proof Voltage:1,000 V r.m.s.Insulator Resistance:5 G ohms.Clearance and Creepage
Distance [minimum]:0.039 inch [1.0 mm].Working Voltage:300 V r.m.s.

MECHANICAL CHARACTERISTICS:

Fixed Contacts:	Size 20 contacts on the top connector, 0.040 inch [1.02 mm] diameter. Size 22 contacts on the bottom connector, 0.030 inch [0.76 mm] diameter. Female contacts – rugged open entry design.
Contact Retention in Insulator	: 7 lbs. [31 N].
Contact Terminations:	Printed board mount with 90° termina- tions supported in footprint pattern by a plastic cross bar. Termination diameter 0.030 inch [0.76 mm] and 0.028 inch [0.71 mm].
Shells:	Male shells may be dimpled for EMI/ESD ground paths.
Polarization:	Trapezoidally shaped shells and polar- ized jackscrews.
Mounting Bracket	
Riveted to Connector:	Riveted fasteners with 0.120 inch [3.05 mm] diameter clearance hole, 4-40 threads, or 4-40 threads with nylon lock insert.
Mounting to Printed Board:	Rapid installation push-on fasteners.
Locking Systems:	Jackscrews and vibration locking sys- tems for either front or rear panel mount- ed connectors.
Mechanical Operations:	500 operations minimum per IEC 512-5.
CLIMATIC CHARACTE	BISTICS

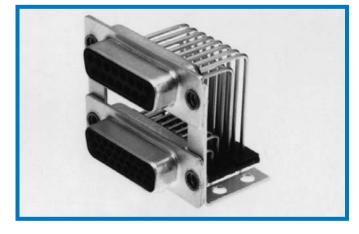
Temperature Range: -58

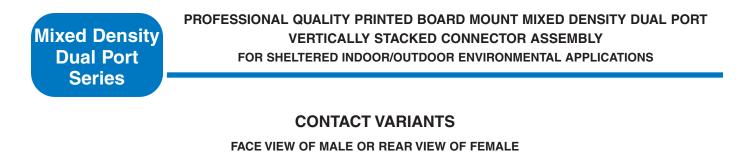
-55°C to +125°C.

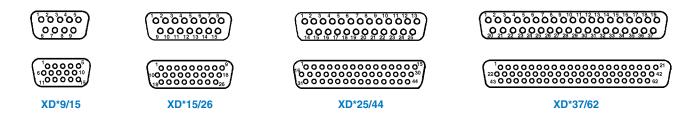




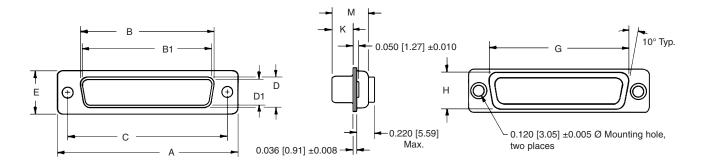
PROFESSIONAL QUALITY PRINTED BOARD MOUNT MIXED DENSITY DUAL PORT VERTICALLY STACKED CONNECTOR ASSEMBLY FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS







STANDARD SHELL ASSEMBLY

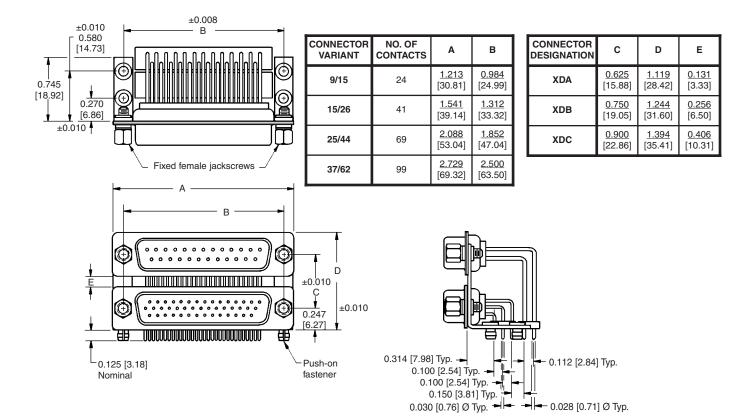


CONNECTOR VARIANT SIZES	A ±0.015	B ±0.005	B1 ±0.005	C ±0.005	D ±0.005	D1 ±0.005	E ±0.015	G ±0.010	H ±0.010	K ±0.005	M ±0.010
9M/15M	<u>1.213</u> [30.81]		<u>0.666</u> [16.92]	<u>0.984</u> [24.99]		<u>0.329</u> [8.36]	<u>0.494</u> [12.55]	<u>0.759</u> [19.28]	<u>0.422</u> [10.72]	<u>0.233</u> [5.92]	<u>0.422</u> [10.72]
9F/15F	<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]
15M/26M	<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]
15F/26F	<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]
25M/44M	<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]
25F/44F	<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]
37M/62M	<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]
37F/62F	<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]



90° PRINTED BOARD MOUNT CONNECTOR

5 ROW CONNECTOR UNIT, 0.314 [7.98] CONTACT EXTENSION

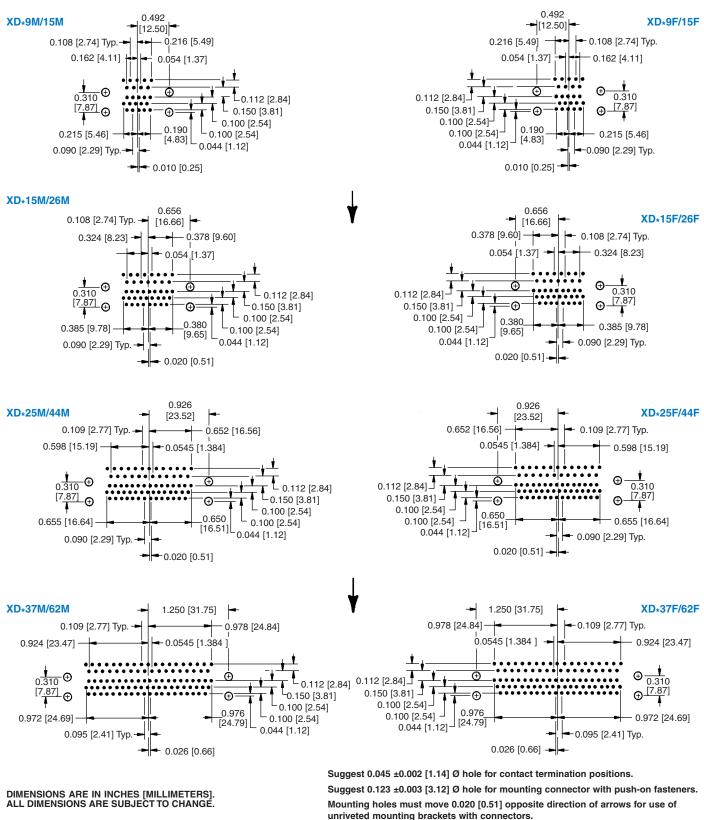




PROFESSIONAL QUALITY PRINTED BOARD MOUNT MIXED DENSITY DUAL PORT **Mixed Density** VERTICALLY STACKED CONNECTOR ASSEMBLY FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

CONTACT HOLE PATTERN

Mount connector with mating face positioned to follow direction of arrows.



Industries, Inc.

Positronic

Dual Port

Series

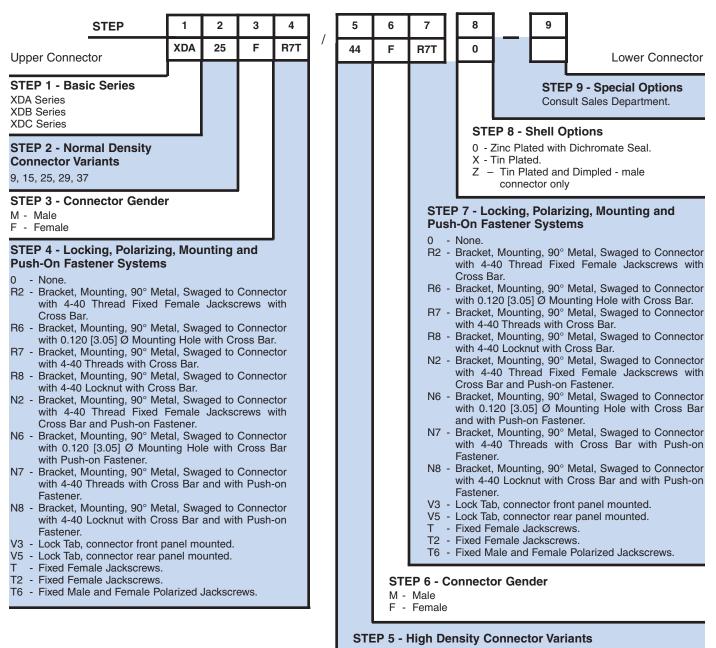
Mount connector with mating face positioned to follow direction of arrows.

17

ORDERING INFORMATION – CODE NUMBERING SYSTEM

Specify Complete Connector By Following Steps 1 Through 9

Insert "0" When Step Is Not Used



15, 26, 44, 62



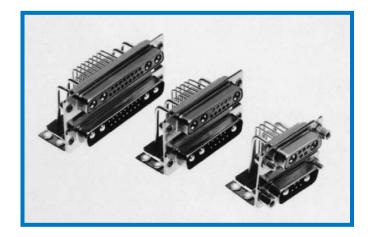
Combo Dual Port Series PROFESSIONAL QUALITY PRINTED BOARD MOUNT COMBINATION POWER AND SIGNAL CONTACT DUAL PORT VERTICALLY STACKED CONNECTOR ASSEMBLY FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

Power and Signal Contacts

U.L. Recognized File #E49351

CSA Recognized File #LR54219

Telecommunication U.L. File #14095



MECHANICAL CHARACTERISTICS:

The Combo-Dual Port connector series offers several combinations of power and signal contacts within the same connector assembly. Fifteen different combinations of power and signal contact stacked assemblies are available within four standard shell sizes. The connector assembly can be partially populated with either signal or power contacts installed in the connector bodies to customer selected contact positions. The stacked connectors may be spaced apart to two dimensional spacings. On special order, the 90° printed board mount 15 ampere contacts

may be replaced with size 8 power, shielded or high voltage contacts

having crimp or solder cup terminations. Signal contacts remain in dual port configuration.

Mounting angle brackets can be ordered riveted to the connector by specifying R2, R6, R7 and R8 options. Locking systems are available utilizing 4-40 threaded jackscrew systems, polarized or non-polarized, or with a quick-release vibration lock system for either front or rear panel mounted connectors.

Combo-Dual Port Series connectors comply with the dimensional requirements of IEC 807-2 and DESC 85039.

Size 20 male contacts–0.040 inch [1.0mm] diameter. Female contactrugged open entry design.

COMBO-DUAL PORT TECHNICAL CHARACTERISTICS

Signal Contacts:

Contact Retention

MATERIALS AND FINISHES:

Insulator:	Polyester, glass filled per MIL-M-24519, UL 94V-0, blue color.
Signal Contacts:	Male contacts-precision machined copper alloy. Female contacts-precision machined high tensile phosphor bronze.
Signal Contact Plating:	Gold flash over nickel plate. Other finishes avail- able upon request.
Power Contacts:	Male contacts-precision machined copper alloy. Female contacts-precision machined high tensile copper alloy.
Power Contact Plating:	Gold flash over nickel. Other finishes available upon request.
Shells:	Steel or brass with tin plate or zinc plate with dichromate seal. Other materials and finishes available upon request.
Mounting Spacers and Brackets:	Steel or brass with tin plate or zinc with dichromate seal.
Cross Bar:	Nylon, UL 94V-0, black color.
Push-On Fasteners:	Beryllium copper, tin plated.
Jackscrew Systems:	Steel with clear zinc plate or zinc plate with dichromate seal.

Vibration Lock Systems: Lock tabs, steel with nickel plate.

ELECTRICAL CHARACTERISTICS:

Signal Contacts: Initial Contact	7.5 amperes nominal.
Resistance:	0.008 ohms maximum.
Power Contacts:	15 ampere nominal for 90° board mount. 10, 20 and 40 ampere nominal are removable contacts with solder or crimp terminations.
Initial Contact	
Resistance:	0.0005 ohms max. per 512-2, test 2b
Proof Voltage:	1000 V r.m.s.
Insulator Resistance:	5 G ohms.
Clearance and Creepage	

0.039 inch [1.0mm] 300 V r.m.s.

In Insulator: 9 lbs. [40N] **Contact Terminations:** Printed board mount with 90° terminations supported by alignment bar. Termination diameter 0.028 inch [0.71mm]. Size 8 male contact-0.142 inch **Power Contacts:** [3.61mm] diameter. Female contactopen entry and closed entry options. **Contact Retention** In Insulator: 22 lbs. [92N] Printed board mount with 90° terminations **Contact Terminations:** of 0.078 inch [1.98mm] diameter. Size 8 removable solder cup contacts with wire hole diameters of 0.188 inch [4.78mm], 0.112 inch [2.84mm] and 0.069 inch [1.75mm]. Shells: Male connector shells may be dimpled for EMI/ESD ground paths. Trapezoidally shaped shells and polar-**Polarization:** ized jackscrews. Riveted fasteners with 0.120 inch Mounting Bracket **Riveted to Connector:** [3.05mm] diameter clearance hole, with 4-40 threads or 4-40 threads with nylon lock insert. **Mounting To** Printed Board: Rapid installation push-on fasteners. Locking Systems: Jackscrews and vibration locking system for either front or rear panel mount-

Mechanical Operations: 500 operations minimum per IEC 512-5. CLIMATIC CHARACTERISTICS:

Temperature Range:-55°C toDamp Heat, Steady State:10 days.

-55°C to +125°C. 10 days.

ed connectors.

Distance [minimum]:

Positronic

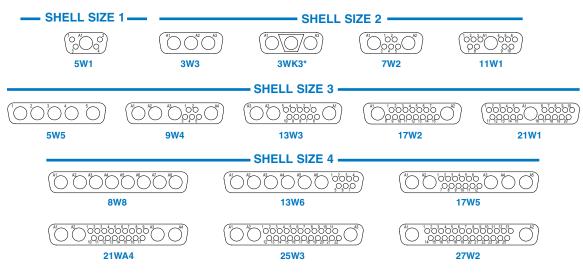
Industries, Inc.

Working Voltage:

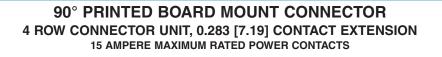
PROFESSIONAL QUALITY PRINTED BOARD MOUNT COMBINATION POWER AND SIGNAL CONTACT DUAL PORT VERTICALLY STACKED CONNECTOR ASSEMBLY FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

CONTACT VARIANTS

FACE VIEW OF MALE OR REAR VIEW OF FEMALE



*3WK3: M variant contains 2 male contacts and 1 female contact F variant contains 2 female contacts and 1 male contact

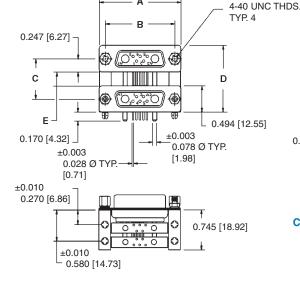


Note: 30 ampere 0.125 [3.18] Ø power contacts may be ordered at special request for a limited number of CBDP variants. Contact factory for details.

Combo

Dual Port

Series



Α

CONNECTOR DESIGNATION	С	D	E
CBDPB	<u>0.750</u>	<u>1.244</u>	<u>0.256</u>
	[19.05]	[31.60]	[6.50]
CBDPC	<u>0.900</u>	<u>1.394</u>	<u>0.406</u>
	[22.86]	[35.41]	[10.31]

0.036 [0.91] 0.220 [5.59] MAX. 0.283 [7.19] TYP. 0.112 [2.84] TYP. 0.112 [2.84] TYP. _ 0.150 [3.81] TYP.

±0.008

TYPICAL PART NUMBER: CBDPB7W2MN8T2/7W2MN8T6X

CONNECTOR VARIANT	Α	В
SHELL SIZE 1	<u>1.213</u> [30.81]	<u>0.984</u> [24.99]
SHELL SIZE 2	<u>1.541</u> [39.14]	<u>1.312</u> [33.32]
SHELL SIZE 3	<u>2.088</u> [53.04]	<u>1.852</u> [47.04]
SHELL SIZE 4	<u>2.729</u> [69.32]	<u>2.500</u> [63.50]

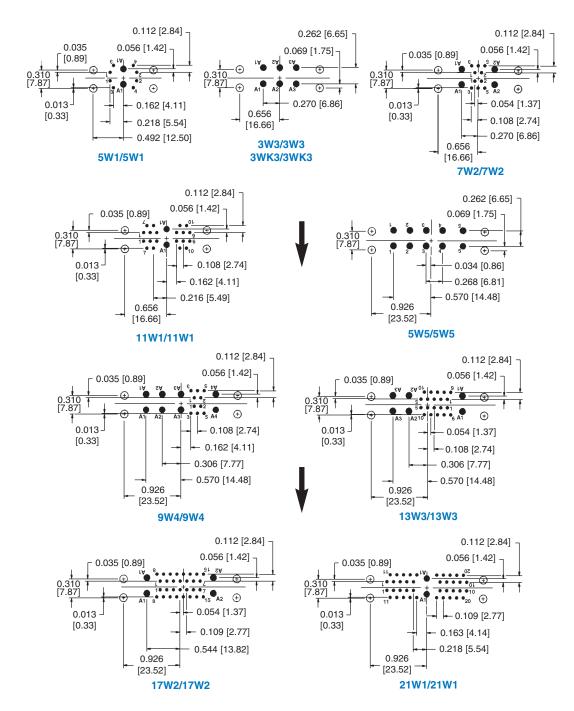
Note: Printed board power contacts [size 8] may be replaced with a size 8 removable power, shielded or high voltage contact having solder or crimp terminations.

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

Positronic Industries, Inc. Combo Dual Port Series PROFESSIONAL QUALITY PRINTED BOARD MOUNT COMBINATION POWER AND SIGNAL CONTACT DUAL PORT VERTICALLY STACKED CONNECTOR ASSEMBLY FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

90° PRINTED BOARD CONTACT HOLE PATTERN

Hole identification shown is for female connector over male connector. Mount connector with mating face positioned to follow direction of arrow.



Suggest 0.045 [1.14] Ø hole for signal contact termination positions. Suggest 0.098 [2.49] Ø hole for 0.078 [1.98] Ø power contact termination positions. Suggest 0.123 ± 0.003 [3.12] Ø hole for mounting connector with push-on fasteners.

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

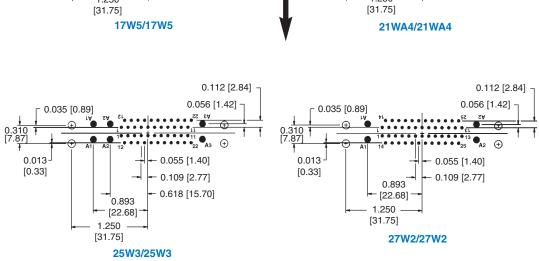
DIMENSIONS ARE IN INCHES [MILLIMETERS]. ALL DIMENSIONS ARE SUBJECT TO CHANGE.

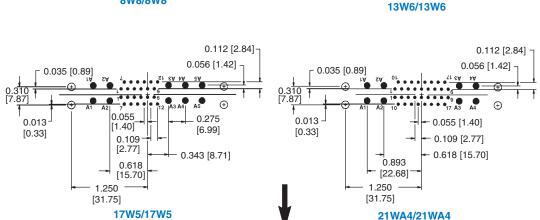
Positronic

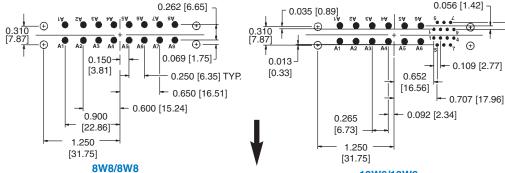
Industries, Inc.

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

Suggest 0.045 [1.14] Ø hole for signal contact termination positions. Suggest 0.098 [2.49] Ø hole for 0.078 [1.98] Ø power contact termination positions. Suggest 0.123 ±0.003 [3.12] Ø hole for mounting connector with push-on fasteners.







90° PRINTED BOARD CONTACT HOLE PATTERN Hole identification shown is for female connector over male connector. Mount connector with mating face positioned to follow direction of arrow.

Combo **Dual Port Series**

PROFESSIONAL QUALITY PRINTED BOARD MOUNT COMBINATION POWER AND SIGNAL CONTACT DUAL PORT VERTICALLY STACKED CONNECTOR ASSEMBLY FOR SHELTERED INDOOR/OUTDOOR ENVIRONMENTAL APPLICATIONS

0.112 [2.84]

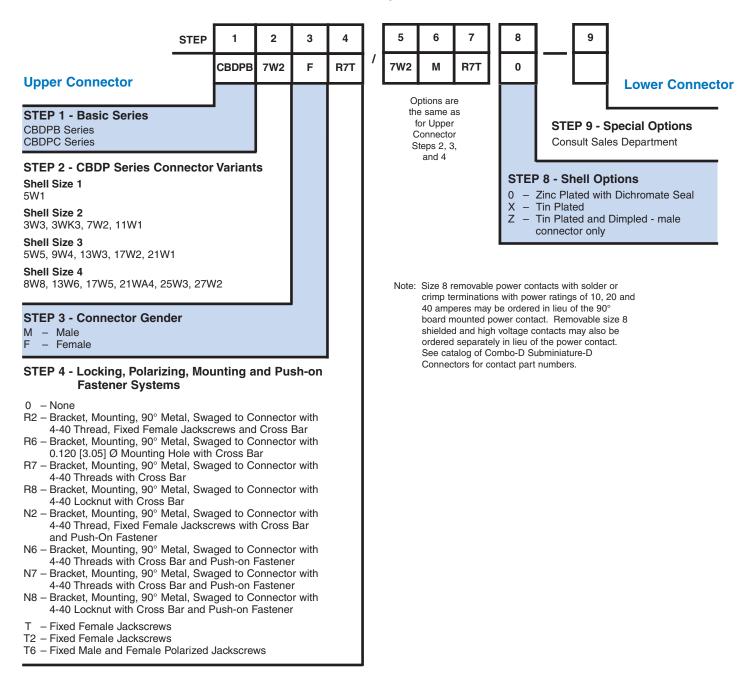
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Positronic

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ORDERING INFORMATION – CODE NUMBERING SYSTEM

Specify Complete Connector By Following Steps 1 Through 9 Insert "0" When Step Is Not Used



Connector Ficellence POSITRONIC INDUSTRIES

POSITRONIC PRODUCTS

Contact Sizes: 0, 8, 12, 16, 20 and 22

Current Ratings: To 150 amperes Terminations: Crimp, wire solder, straight solder, right angle solder, straight press-fit and right angle press-fit Configurations: Multiple variants in a variety of package sizes Compliance: PICMG 2.11, PICMG 3.0, VITA 41



FEATURES: Hot swap capability • AC/DC operation in a single connector • Signal contacts for hardware management • Blind mating • Sequential mating • Large Surface Area Contact Mating System • Wide variety of accessories • Customer specified contact arrangements

Contact Sizes: 8, 20 and 22 Current Ratings: To 40 amperes nominal Terminations: Crimp, wire solder, straight solder, right angle solder and straight press-fit

Configurations: Multiple variants in both standard and high densities Qualifications: MIL-DTL-24308, Goddard Space Flight 311P, MIL-C-39029, IP65, IP67



FEATURES: Three performance levels available: professional quality, military quality and space-flight quality provide multiple performance to cost choices • Options include thermocouple contacts, filtered, environmentally sealed and dual port package including mixed density • Broad selection of accessories

Contact Sizes: 16, 20 and 22 Current Ratings: To 13 amperes Terminations: Crimp, wire solder, straight solder and right angle solder Configurations: Multiple variants in both standard and high densities Qualifications: MIL-DTL-28748, MIL-C-39029, CCITT V35



FEATURES: Two performance levels available: industrial quality and military quality provide two performance to cost choices • Large Surface Area Contact Mating System • A wide variety of accessories • Broad selection of contact variants and package sizes

and 22 Current Ratings: To 25 amperes nominal Terminations: Crimp, wire solder, straight solder and right angle solder Configurations: Multiple variants in two package sizes Qualifications: Environmental protection to IP67

Contact Sizes: 12, 16, 20



FEATURES: Non-corrodible / lightweight composite construction • EMI/RFI shielded versions • Thermocouple contacts • Environmentally sealed versions • Rear insertion/ front release of removable contacts • Two level sequential mating • Overmolding available on full assemblies

All Positronic connector products can be supplied as part of cable assemblies whose technical characteristics would reflect those of the connectors being used within the assembly.



FEATURES: Shorten the supply chain and reduce additional costs and delays by "cablizing" • Overmolding available • Shielded and environmentally sealed versions available • Power cables and access boxes which meet the SAE J2496 specification

Contact Sizes: 8, 12, 16, 20 and 22 Current Ratings: To 40 amperes nominal Terminations: Feed through is standard; flying leads and board mount available upon request Configurations: See D-Subminiature and Circular Configurations above Qualifications: Space-D32



FEATURES: Intended for use as an electrical feedthrough in high vacuum applications • Leakage rate: 1 x 10-9 mbar.l/s • Signal, power, coax and high voltage versions available • Connectors can be mounted on flange assembly per customer specification

For more information, visit www.connectpositronic.com or call your nearest Positronic sales office as given on the back of this catalog.

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Other:

DPA25FN6T/25FN6T0 DPA9FN6T/9FN6T0 DPA9MN6T/9MN6T0 DPB37MN7/37MR7Z DPB9FN8T2/9FN8T2X DPC37FR8/37FR8X DPC9MN8/9MN80