

PDM 24 SERIES – 50 OHM

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

MECHANICAL

MATERIALS

Plug Bodies: Brass per ASTM B 16.
Receptacle Bodies: Beryllium Copper per ASTM B 196.
Insulation: Teflon (PTFE) per ASTM D 1457.
Contacts, Female: Beryllium Copper per ASTM B 196.
Contacts, Male: Brass per ASTM B 16.
Retaining Ring: Beryllium Copper per ASTM B 194.

PLATING

Gold per MIL-G-45204.
Copper per MIL-C-14550.
Nickel per QQ-N-290.

FINISH (Add letter to end of part number.)

BODIES AND CONTACTS*

"A": .000050 Min. Gold over Nickel.
"B": .000030 Min. Gold over Nickel.
"C": .000050 Min. Gold over Copper.
"D": .000030 Min. Gold over Copper.
**"F": .000010 Min. Gold over Nickel
"H": Non-Magnetic – .000050 Min. Gold over Copper.
Residual Magnetism less than 20 Gamma.

MATING CHARACTERISTICS

Outer Bodies: 3 lbs. Max. Insertion.
2 oz. Min. Withdrawal.
Center Contacts: 14 oz. Max Insertion.
.5 oz. Min. Withdrawal.
Housing Retention: 12 lbs. Min.

ELECTRICAL

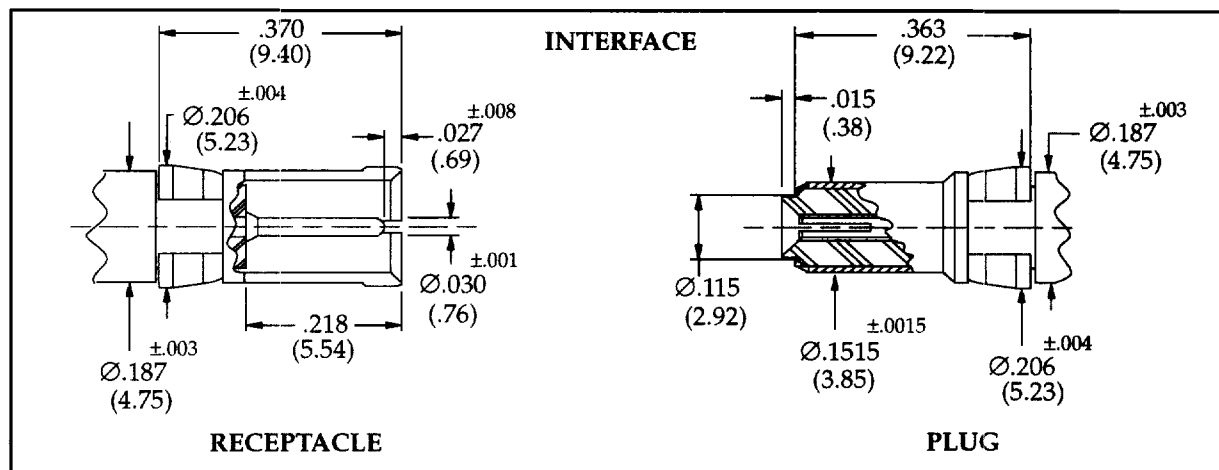
Frequency Range: DC to 2000 MHz.
VSWR: 1.35 Max. 1500 MHz.
Voltage Rating Straight: 1000 V RMS.
Voltage Rating Angled: 800 V RMS.
Current Rating: 2.5 Amps.
Max. Power at 1 GHz: 450 Watts.
Max. Power at 2 GHz: 300 Watts.

Contact Resistance: Center Contact 6 Milliohms.
Contact Resistance: Outer Contact 3 Milliohms.
Insertion Loss: .2 dB Max.
Insulation Resistance: 5000 Megohms Min.
DWV – See detailed chart located in Appendix A.

ENVIRONMENTAL

Operating Temperature Range: -67° F to +257° F.
(-55° C to +125° C)
Vibration: MIL-STD-1344, Method 2005, Test Condition 4.
Shock: MIL-STD-1344, Method 2004, Test Condition E.

Salt Spray: MIL-STD-1344, Method 1001, Condition B.
Durability: 500 Cycles.



* All other components plated to meet environmental requirements.
**F Plating may not meet all aspects of Environmental Specifications.



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PALCO CONNECTOR

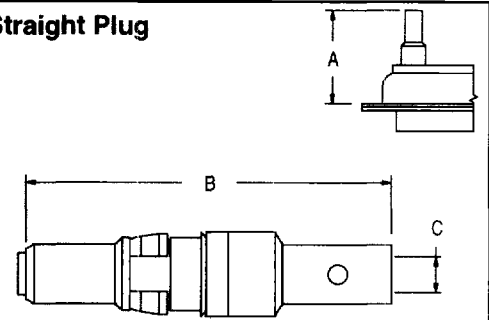
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PDM 24 SERIES SOLDER

Part Number	A MAX.	B REF.	C DIA.	Cable
24-0020-0400*	.739 (18.77)	.929 (23.60)	.040 (1.02)	RG178,196
24-0020-0670*	.739 (18.77)	.929 (23.60)	.067 (1.70)	RG316,188,174
24-0020-1080*	.847 (21.51)	1.037 (26.34)	.108 (2.74)	RG180,195
24-0020-1201*	.847 (21.51)	1.037 (26.34)	.120 (3.05)	RG58,141,303
24-0020-2201*	.847 (21.51)	1.037 (26.34)	.120 (3.05)	RG400,142
24-0020-2670*	.739 (18.77)	.929 (23.60)	.067 (1.70)	RG316 D.S. (M17/152)

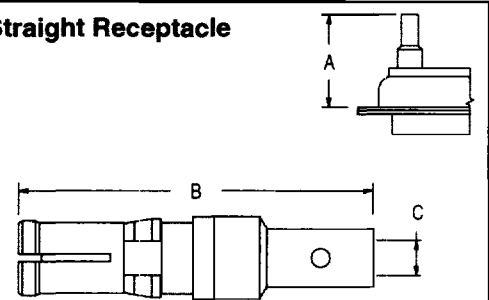
Straight Plug



Solder

Part Number	A MAX.	B REF.	C DIA.	Cable
24-1020-0400*	.739 (18.77)	.929 (23.60)	.040 (1.02)	RG178,196
24-1020-0670*	.739 (18.77)	.929 (23.60)	.067 (1.70)	RG316,188,174
24-1020-1080*	.847 (21.51)	1.037 (26.34)	.108 (2.74)	RG180,195
24-1020-1201*	.847 (21.51)	1.037 (26.34)	.120 (3.05)	RG58,141,303
24-1020-2201*	.847 (21.51)	1.037 (26.34)	.120 (3.05)	RG400,142
24-1020-2670*	.739 (18.77)	.929 (23.60)	.067 (1.70)	RG316 D.S. (M17/152)

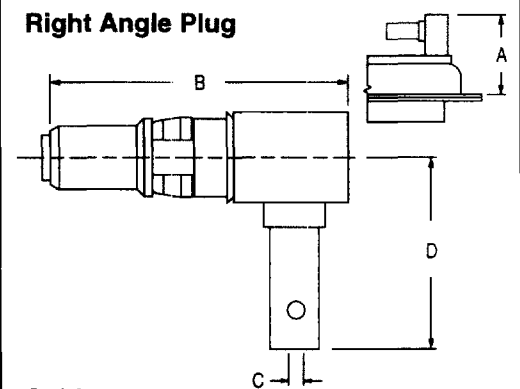
Straight Receptacle



Solder

Part Number	A MAX.	B REF.	C DIA.	D REF.	Cable
24-0520-0400*	.530 (13.46)	.734 (18.64)	.040 (1.02)	.492 (12.50)	RG178,196
24-0520-0670*	.530 (13.46)	.734 (18.64)	.067 (1.70)	.492 (12.50)	RG316,188,174
24-0520-1080*	.530 (13.46)	.734 (18.64)	.108 (2.74)	.606 (15.39)	RG180,195
24-0520-1201*	.530 (13.46)	.734 (18.64)	.120 (3.05)	.606 (15.39)	RG58,141,303
24-0520-2201*	.530 (13.46)	.734 (18.64)	.120 (3.05)	.606 (15.39)	RG400,142
24-0520-2670*	.530 (13.46)	.734 (18.64)	.067 (1.70)	.492 (12.50)	RG316 D.S. (M17/152)

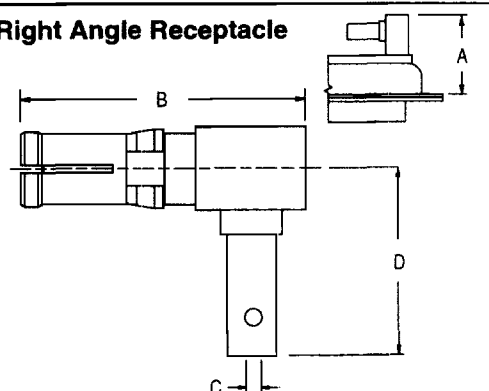
Right Angle Plug



Solder

Part Number	A MAX.	B REF.	C DIA.	D REF.	Cable
24-1520-0400*	.530 (13.46)	.744 (18.90)	.040 (1.02)	.492 (12.50)	RG178,196
24-1520-0670*	.530 (13.46)	.744 (18.90)	.067 (1.70)	.492 (12.50)	RG316,188,174
24-1520-1080*	.530 (13.46)	.744 (18.90)	.108 (2.74)	.606 (15.39)	RG180,195
24-1520-1201*	.530 (13.46)	.744 (18.90)	.120 (3.05)	.606 (15.39)	RG58,141,303
24-1520-2201*	.530 (13.46)	.744 (18.90)	.120 (3.05)	.606 (15.39)	RG400,142
24-1520-2670*	.530 (13.46)	.744 (18.90)	.067 (1.70)	.492 (12.50)	RG316 D.S. (M17/152)

Right Angle Receptacle



Solder

*See Specification Page for finish suffix.



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PALCO CONNECTOR

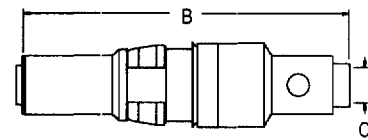
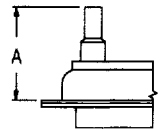
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PDM 24 SERIES **SEMI-RIGID – SOLDER**

Part Number	A MAX.	B REF.	C DIA.	Cable
24-0020-0860*	.62 (15.75)	.86 (21.84)	.092 (2.34)	RG405-M17/133 (.086 S.R.)
24-0020-1410*	.62 (15.75)	.86 (21.84)	.145 (3.68)	RG402-M17/130 (.141 S.R.)

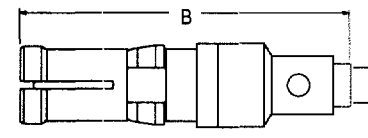
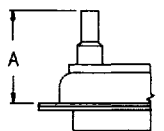
**Straight Plug
SEMI-RIGID**



Solder

Part Number	A MAX.	B REF.	C DIA.	Cable
24-1020-0860*	.62 (15.75)	.86 (21.84)	.092 (2.34)	RG405-M17/133 (.086 S.R.)
24-1020-1410*	.62 (15.75)	.86 (21.84)	.145 (3.68)	RG402-M17/130 (.141 S.R.)

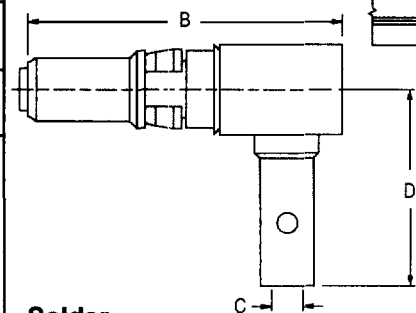
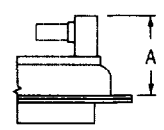
**Straight Receptacle
SEMI-RIGID**



Solder

Part Number	A MAX.	B REF.	C DIA.	D REF.	Cable
24-0520-0860*	.530 (13.46)	.74 (18.80)	.092 (2.34)	.37 (9.40)	RG405-M17/133 (.086 S.R.)
24-0520-1410*	.530 (13.46)	.74 (18.80)	.145 (3.68)	.37 (9.40)	RG402-M17/130 (.141 S.R.)

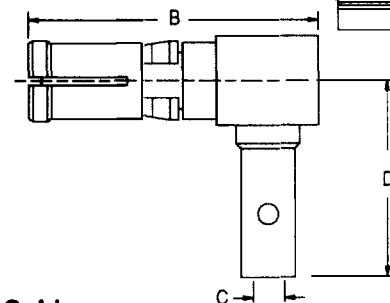
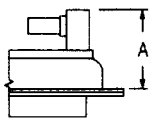
**Right Angle Plug
SEMI-RIGID**



Solder

Part Number	A MAX.	B REF.	C DIA.	D REF.	Cable
24-1520-0860*	.530 (13.46)	.74 (18.80)	.092 (2.34)	.37 (9.40)	RG405-M17/133 (.086 S.R.)
24-1520-1410*	.530 (13.46)	.74 (18.80)	.145 (3.68)	.37 (9.40)	RG402-M17/130 (.141 S.R.)

**Right Angle Receptacle
SEMI-RIGID**



Solder

*See Specification Page for finish suffix.



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PALCO CONNECTOR

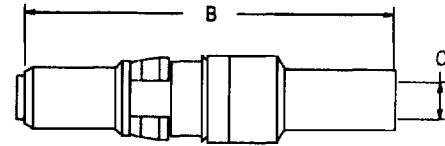
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PDM 24 SERIES CRIMP

Part Number	A MAX.	B REF.	C DIA.	Cable
24-0080-0400	.739 (18.77)	.929 (23.60)	.040 (1.02)	RG178,196
24-0080-0670	.739 (18.77)	.929 (23.60)	.067 (1.70)	RG316,188,174
24-0080-1080	.847 (21.51)	1.037 (26.34)	.108 (2.74)	RG180,195
24-0080-1201	.847 (21.51)	1.037 (26.34)	.120 (3.05)	RG58,141,303
24-0080-2201	.847 (21.51)	1.037 (26.34)	.120 (3.05)	RG400,142
24-0080-2670	.739 (18.77)	.929 (23.60)	.067 (1.70)	RG316 D.S. (M17/152)

Straight Plug

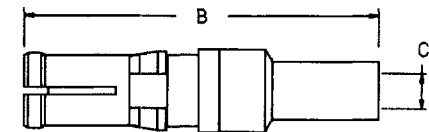


Crimp

Consult Factory For Tooling Information.

Part Number	A MAX.	B REF.	C DIA.	Cable
24-1080-0400	.739 (18.77)	.929 (23.60)	.040 (1.02)	RG178,196
24-1080-0670	.739 (18.77)	.929 (23.60)	.067 (1.70)	RG316,188,174
24-1080-1080	.847 (21.51)	1.037 (26.34)	.108 (2.74)	RG180,195
24-1080-1201	.847 (21.51)	1.037 (26.34)	.120 (3.05)	RG58,141,303
24-1080-2201	.847 (21.51)	1.037 (26.34)	.120 (3.05)	RG400,142
24-1080-2670	.739 (18.77)	.929 (23.60)	.067 (1.70)	RG316 D.S. (M17/152)

Straight Receptacle

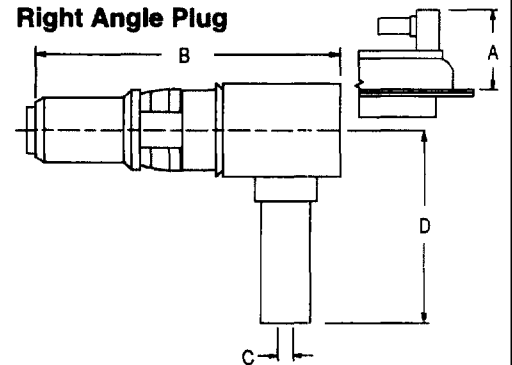


Crimp

Consult Factory For Tooling Information.

Part Number	A MAX.	B REF.	C DIA.	D REF.	Cable
24-0580-0400	.530 (13.46)	.734 (18.64)	.040 (1.02)	.492 (12.50)	RG178,196
24-0580-0670	.530 (13.46)	.734 (18.64)	.067 (1.70)	.492 (12.50)	RG316,188,174
24-0580-1080	.530 (13.46)	.734 (18.64)	.108 (2.74)	.606 (15.39)	RG180,195
24-0580-1201	.530 (13.46)	.734 (18.64)	.120 (3.05)	.606 (15.39)	RG58,141,303
24-0580-2201	.530 (13.46)	.734 (18.64)	.120 (3.05)	.606 (15.39)	RG400,142
24-0580-2670	.530 (13.46)	.734 (18.64)	.067 (1.70)	.492 (12.50)	RG316 D.S. (M17/152)

Right Angle Plug

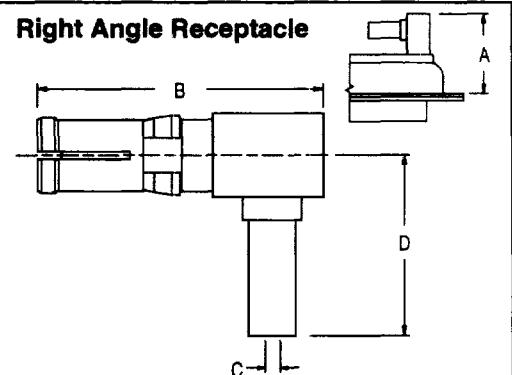


Crimp

Consult Factory For Tooling Information.

Part Number	A MAX.	B REF.	C DIA.	D REF.	Cable
24-1580-0400	.530 (13.46)	.744 (18.90)	.040 (1.02)	.492 (12.50)	RG178,196
24-1580-0670	.530 (13.46)	.744 (18.90)	.067 (1.70)	.492 (12.50)	RG316,188,174
24-1580-1080	.530 (13.46)	.744 (18.90)	.108 (2.74)	.606 (15.39)	RG180,195
24-1580-1201	.530 (13.46)	.744 (18.90)	.120 (3.05)	.606 (15.39)	RG58,141,303
24-1580-2201	.530 (13.46)	.744 (18.90)	.120 (3.05)	.606 (15.39)	RG400,142
24-1580-2670	.530 (13.46)	.744 (18.90)	.067 (1.70)	.492 (12.50)	RG316 D.S. (M17/152)

Right Angle Receptacle



Crimp

Consult Factory For Tooling Information.

*See Specification Page for finish suffix.



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PDM 24 SERIES DOUBLE CRIMP

Phoenix double crimp, size 8 contacts are offered in standard, 50 and 75 ohm versions, as solderless, cost effective alternatives for high volume manufacturing needs. The double crimp contact design consists of a one piece body, a separate snap fit, center contact and an outer ferrule. Both center contact and outer ferrule can be terminated with a high speed crimping operation or conventional hand-held tool. Phoenix double crimp contacts are intermateable to "industry standard" equivalent, D-subminiature coaxial contact varieties.

Part Number	Cable	A MAX.	Straight Plug
24-0090-0672*	RG188,316	.739 (18.77)	Double Crimp Consult Factory For Tooling Information.
Part Number	Cable	A MAX.	Straight Receptacle
24-1090-0672*	RG188,316	.739 (18.77)	Double Crimp Consult Factory For Tooling Information.

*See Specification Page for finish suffix.



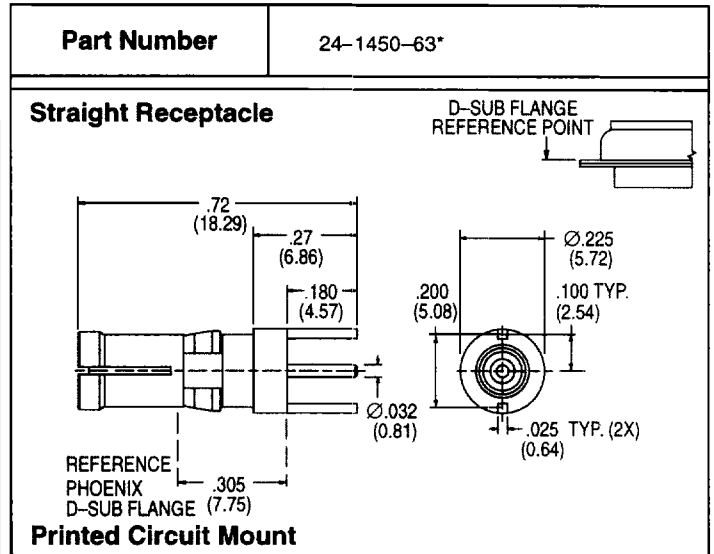
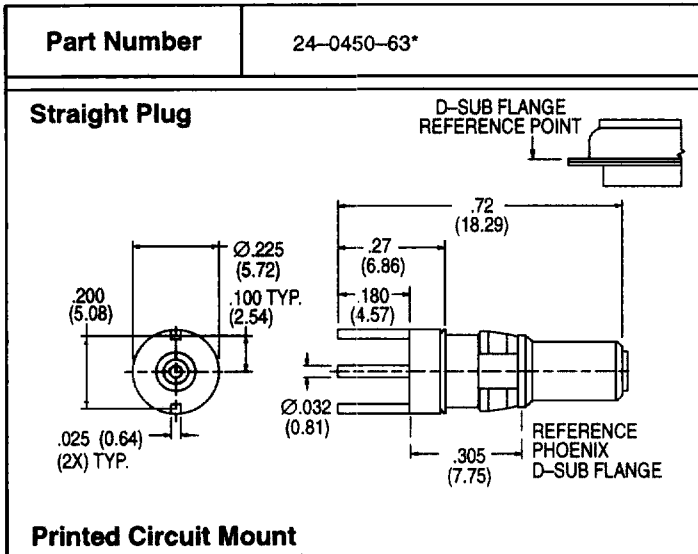
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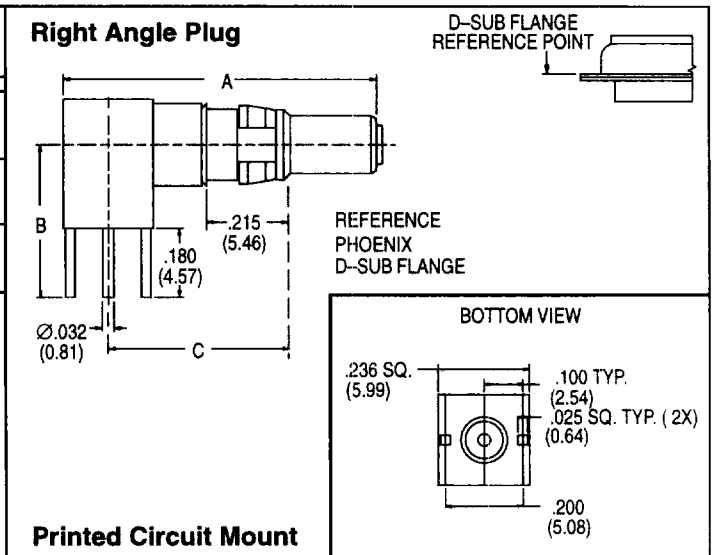
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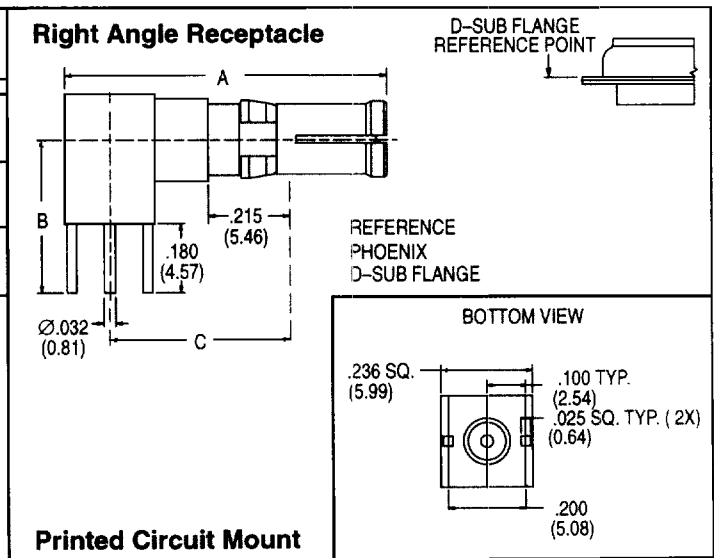
PDM 24 SERIES PRINTED CIRCUIT MOUNT



Part Number	A MAX.	B REF.	C	Fits Shell
24-2450-63*	.92 (23.37)	.515 (13.08)	.570 (14.48)	D
24-2450-73*	.82 (20.83)	.400 (10.16)	.470 (11.94)	E,A,B,C
24-2450-83*	.72 (18.29)	.400 (10.16)	.370 (9.40)	E,A,B,C



Part Number	A MAX.	B REF.	C	Fits Shell
24-3450-63*	.93 (23.62)	.515 (13.08)	.570 (14.48)	D
24-3450-73*	.83 (21.08)	.400 (10.16)	.470 (11.94)	E,A,B,C
24-3450-83*	.73 (18.54)	.400 (10.16)	.370 (9.40)	E,A,B,C



*See Specification Page for finish suffix.



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