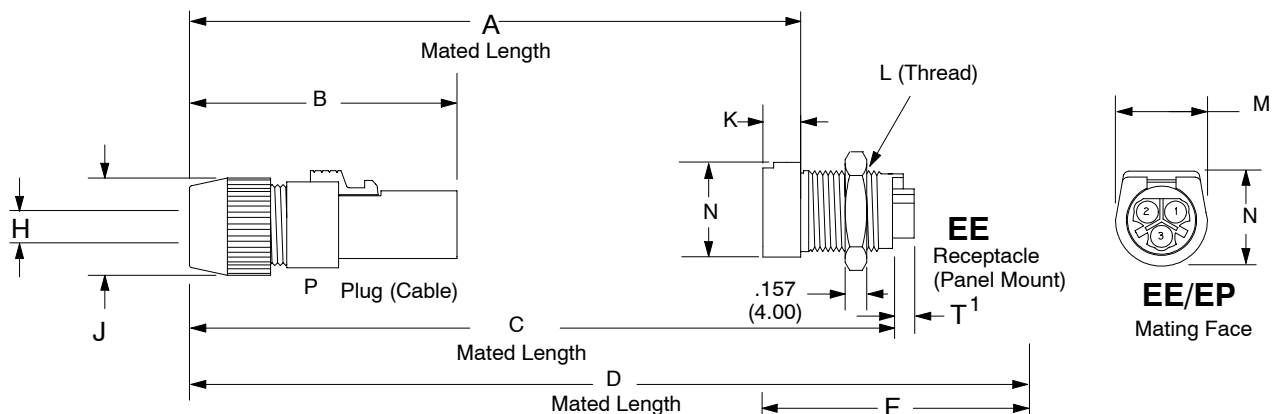




CIRCULAR PLASTIC CONNECTORS 3, 4, 7, 9, 12 & 25 CONTACT VERSIONS

- 3, 4, 7, 9, 12 & 25 position models.
- 1 to 8 amps per contact.
- recognized components File No. 102195.
- Each connector half accepts pins or sockets.
- High impact plastic body.
- Quick disconnect push button release.
- Alignment and keying provided by housing.
- Crimp, solder cup, and pc contacts.

CONNECTOR DIMENSIONS



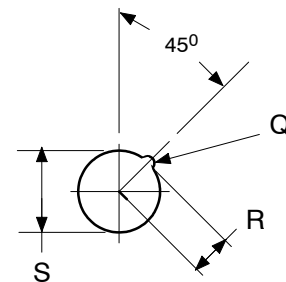
NOTE: Dimensions in inches (mm)

Dimension	D01 Housing	D02 Housing
A	1.142 (29.00)	1.358 (34.50)
B	1.614 (41.00)	1.950 (49.50)
C	1.732 (44.00)	2.087 (53.00)
D	2.4 (61.00)	2.953 (75.00)
F	1.5 (38.00)	1.772 (45.00)
G Dia.	.512 (13.00)	.709 (18.00)
H Dia.	.118 (3.00) Min. .216 (5.50) Max.	.197 (5.00) Min. .315 (8.00) Max.
J Dia.	.472 (12.00)	.709 (18.00)
K	.161 (4.10)	.278 (7.00)
L	M11 X 1.00 Thd.	M15 X 1.00 Thd.
M	.512 (13.00)	.669 (17.00)
N	.512 (13.00)	.689 (17.50)
Q Dia.	.126 (3.20)	.100 (2.54)
R	.220 (5.60)	.295 (7.50)
S Dia.	.441 (11.20)	.598 (15.20)
T ¹	.157 (4.00)	.157 (4.00)

Notes:

- 1) D02EE315 Dim. T is 0.256 (6.50)
D02EE125 Dim. T is 0.000 (0.00)
D02EE2504 Dim. T is 0.000 (0.00)
- 2) Recommended tightening torque for panel mount receptacle (.452-.678 N•M) for both D01 & D02.

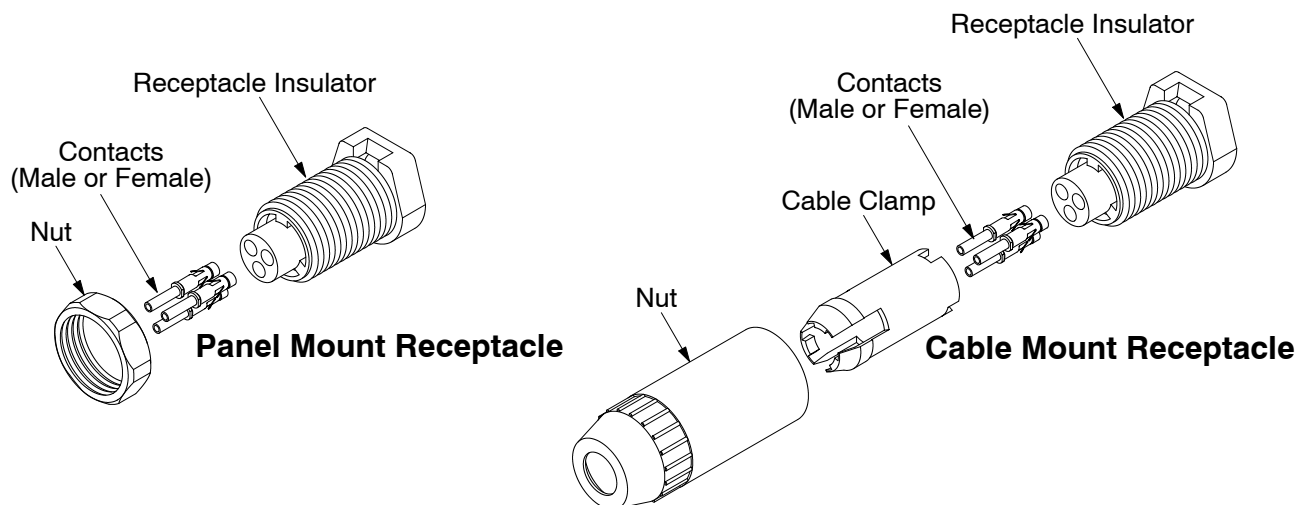
MOUNTING DIMENSIONS



HOLE PUNCHES

Part Number	Series	Maximum Recommended Panel in Steel	Maximum Recommended Panel in Alum.
T1903	D01	0.048 (1.25)	0.075 (1.90)
T1904	D02	0.062 (1.60)	0.094 (2.40)

D SERIES

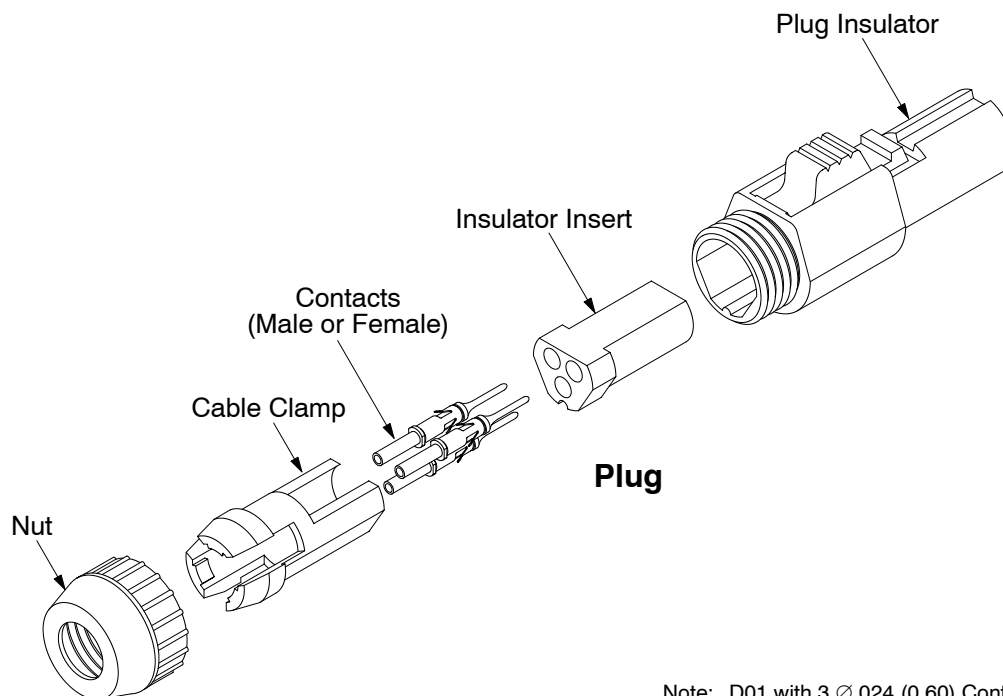


D01 GENERAL SPECIFICATIONS

	3 Pin	4 Pin	9 Pin
Contact Diameter	.024 (0.60)	.024 (0.60)	.016 (0.40)
Current Rating (amps)	4	4	1
Contact Resistance (milliohms)	<5	<5	<8
Contact Extraction Force Each (oz.)	.5 to 2	.5 to 2	.6 to 1.6
Contact Life Cycles	>100,000	>100,000	>100,000
Breakdown Voltage Between Contacts	>2250	>2250	>1000V
Dielectric Withstanding Voltage	1650	1650	750
Contact Material Plating	BeCu wires and brass body (socket) Brass (pin) Gold over Nickel		
Insulation Resistance	> 10 ³ megohms @500 VDC		
Temperature Rating			
Polycarbonate	- 40°C to + 85°C		—
Polysulfone	- 40°C to + 125°C		—
Polyetherimide			-40°C to +125°C

ACCESSORIES

	AFM8 or (M22520/2-01)	AFM8 or (M22520/2-01)	AFM8 or (M22520/2-01)
Crimp Tool			
Positioner	K547	K547	T1914
Removal Tool	S/DEM1.0060	S/DEM1.0060	—
Insertion Tool	T1866	T1866	T1916



Note: D01 with 3 $\varnothing$.024 (0.60) Contacts Shown.
D01 9 pin, D02 12 and 25 pin have no clip,
contacts snap into insert

D02 GENERAL SPECIFICATIONS

	3 Pin	7 Pin	9 Pin	12 Pin	25 Pin
Contact Diameter	.059 (1.50)	.024 (0.60)	.024 (0.60)	.018 (0.50)	.016 (0.40)
Current Rating (amps)	8	4	4	2	1
Contact Resistance (milliohms)	<2	<5	<5	<8	<8
Extraction Force (oz.)	1.8 to 5.4	.5 to 2	.5 to 2	.3 to 1.6	.3 to 1.6
Contact Life Cycles	>100,000	>100,000	>100,000	>100,000	>100,000
Breakdown Voltage Between Contacts	>2250	>2000	>1560	>1000	>1000
Dielectric Withstanding Voltage	1650	1500	1150	750	750
Contact Material	BeCu wires and brass body (socket) Brass (pin) Gold over nickel				
Plating					
Insulation Resistance	> 10 ³ megohms @500 VDC				
Temperature Rating					
Polycarbonate	- 40°C to + 85°C				—
Polysulfone	- 40°C to + 125°C				—
Polyetherimide	—				- 40°C to + 125°C

ACCESSORIES

Crimp Tool	AF8	AFM8 or M22520/2-01	AFM8 or M22520/2-01	AFM8 or M22520/2-01	AFM8 or M22520/2-01
Positioner	TP688	K623	K623	T870	T1914
Removal Tool	S/DEM5.0150	S/DEM1.0060	S/DEM1.0060	—	—
Insertion Tool	T1888	T1866	T1866	T1271	T1916

D SERIES

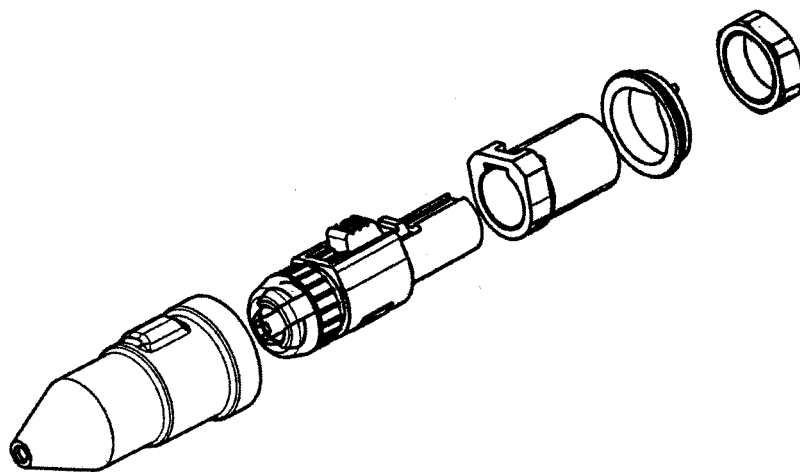
SEALING BOOT FOR D01 CONNECTOR SYSTEM



The sealing option is sold as a separate set. It is composed of a neoprene boot and a plastic washer with a sealing lip. When the boot is installed over the plug cable assembly and the washer is on the receptacle; it offers a medical grade splashproof seal which meets IP 55 in a mated condition.

Part Number for boot and washer: YHD1049

Minimum order 100 units, Call Hypertronics Customer Service for current prices.



ORDERING INFORMATION

D01 3 Pin  Receptacle seen from mating side	Housing	Part Numbers*
	Receptacle Panel Mount Receptacle Cable Plug	D01EEB306NT* D01EPB306NT* D01PB306NT*
	Contacts	Part Numbers**
	Crimp Socket - 22-26 AWG Solder Cup Socket - up to 22 AWG Crimp Pin - 22-26 AWG Solder Cup Pin - up to 22 AWG	YSK006-011AH* YSK006-010AH* YPN006-021H* or G* YPN006-020H* or G*
	Tools	
	Crimp Tool Positioner Removal Tool Insertion Tool	AFM8* or M22520/2-01* K547* S/DEM1.0060* T1866*

D01 4 Pin  Receptacle seen from mating side	Housing	Part Numbers*
	Receptacle Panel Mount Receptacle Cable Plug	D01EEB406NT* D01EPB406NT* D01PB406NT*
	Contacts	Part Numbers**
	Crimp Socket - 22-26 AWG Solder Cup Socket - up to 22 AWG Crimp Pin - 22-26 AWG Solder Cup Pin - up to 22 AWG	YSK006-011AH* YSK006-010AH* YPN006-021H* or G* YPN006-020H* or G*
	Tools	
	Crimp Tool Positioner Removal Tool Insertion Tool	AFM8* or M22520/2-01* K547* S/DEM1.0060* T1866*

D01 9 Pin  Receptacle seen from mating side	Housing	Part Numbers*
	Receptacle Panel Mount Receptacle Cable Plug	D01EEB904NUT* D01EPB904NUT* D01PB904NUT*
	Contacts	Part Numbers**
	Crimp Socket - 26-28 AWG Solder Cup Socket - up to 26 AWG Crimp Pin - 26-28 AWG Solder Cup Pin - up to 26 AWG	YSK004-002AH* YSK004-003AH* YPN004-001H* or G* YPN004-002H* or G*
	Tools	
	Crimp Tool Positioner Insertion Tool	AFM8* or M22520/2-01* T1914* T1916*

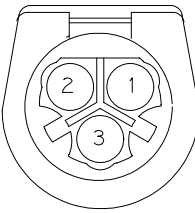
*Denotes standard product with quicker availability. See pages D2-D3 and D14 for other housing material options.

**Plating Reference:

Male Pins: G = 10 µin gold (min) over Ni
H = 50 µin gold (min) over Ni
Female Sockets: AH = 50 µin gold (min) over Ni on mating surface, gold flash over Ni on termination

D SERIES

ORDERING INFORMATION

D02 3 Pin  Receptacle seen from mating side	Housing	Part Numbers*
	Receptacle Panel Mount Receptacle Cable Plug	D02EEB315NT* D02EPB315NT* D02PB315NT*
	Contacts	Part Numbers**
	Crimp Socket - 18 & 20 AWG Solder Cup Socket - up to 16 AWG Crimp Pin - 18 & 20 AWG Solder Cup Pin - up to 16 AWG	YSK015-011AH* YSK015-012AH* YPN015-005H* or G* YPN015-006H* or G*
	Tools	
	Crimp Tool Positioner Removal Tool Insertion Tool	AF8* TP688* S/DEM5.0150* T1888*
D02 7 Pin  Receptacle seen from mating side	Housing	Part Numbers*
	Receptacle Panel Mount Receptacle Cable Plug	D02EEB706NT* D02EPB706NT* D02PB706NT*
	Contacts	Part Numbers**
	Crimp Socket - 22-26 AWG Solder Cup Socket - up to 22 AWG Crimp Pin - 22-26 AWG Solder Cup Pin - up to 22 AWG	YSK006-015AH* YSK006-016AH* YPN006-025H* or G* YPN006-026H* or G*
	Tools	
	Crimp Tool Positioner Removal Tool Insertion Tool	AFM8* or M22520/2-01* K623* S/DEM1.0060* T1866*
D02 9 Pin  Receptacle seen from mating side	Housing	Part Numbers*
	Receptacle Panel Mount Receptacle Cable Plug	D02EEB906NT* D02EPB906NT* D02PB906NT*
	Contacts	Part Numbers**
	Crimp Socket - 22-26 AWG Solder Cup Socket - up to 22 AWG Crimp Pin - 22-26 AWG Solder Cup Pin - up to 22 AWG	YSK006-015AH* YSK006-016AH* YPN006-025H* or G* YPN006-026H* or G*
	Tools	
	Crimp Tool Positioner Removal Tool Insertion Tool	AFM8* or M22520/2-01* K623* S/DEM1.0060* T1866*

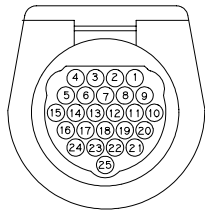
*Denotes standard product with quicker availability. See pages D2-D3 and D14 for other housing material options.

**Plating Reference:

Male Pins: G = 10 µin gold (min) over Ni
H = 50 µin gold (min) over Ni
Female Sockets: AH = 50 µin gold (min) over Ni on mating surface, gold flash over Ni on termination

ORDERING INFORMATION

D02 12 Pin  Receptacle seen from mating side	Housing	Part Numbers*
	Receptacle Panel Mount Receptacle Cable Plug	D02EEB125NT* D02EPB125NT* D02PB125NT*
	Contacts	Part Numbers**
	Crimp Socket – AWG 22-26 Solder Cup Socket – AWG up to 22 Crimp Pin – AWG 22-26 Solder Cup Pin – AWG up to 22	YSK005-036AH* YSK005-037AH* YPN005-049H* or G* YPN005-050H* or G*
	Tools	
	Crimp Tool Positioner Insertion Tool	AFM8* or M22520/2-01* T870* T1271*

D02 25 Pin  Receptacle seen from mating side	Housing	Part Numbers*
	Receptacle Panel Mount Receptacle Cable Plug	D02EEB2504NUT* D02EPB2504NUT* D02PB2504NUT*
	Contacts	Part Numbers**
	Crimp Socket – 26-28 AWG Solder Cup Socket – up to 26 AWG Crimp Pin – 26-28 AWG Solder Cup Pin – up to 26 AWG	YSK004-002AH* YSK004-003AH* YPN004-001H* or G* YPN004-002H* or G*
	Tools	
	Crimp Tool Positioner Insertion Tool	AFM8* or M22520/2-01* T1914* T1916*

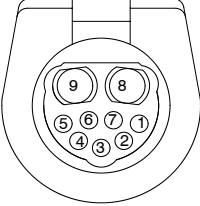
*Denotes standard product with quicker availability. See pages D2-D3 and D14 for other housing material options.

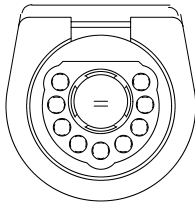
**Plating Reference:

Male Pins: G = 10 µin gold (min) over Ni
H = 50 µin gold (min) over Ni
Female Sockets: AH = 50 µin gold (min) over Ni on mating surface, gold flash over Ni on termination

D SERIES

ORDERING INFORMATION

D02 Power and Signal  Receptacle seen from mating side	Housing Receptacle Panel Mount Plug		Part Numbers* D02EEB-0043 D02PB-0044	
	Contacts Power Socket - 16-20 AWG Power Pin - 16-20 AWG Signal Socket - 22-26 AWG Signal Pin - 22-26 AWG		Part Numbers** YSK015-053AH* YPN015-038H* or G* YSK005-036AH* YPN005-049H* or G*	
	Tools			
	Crimp Tool Positioner (Pin) Positioner (Socket) Removal Tool Insertion Tool	Power AF8 T1164 TP688 T1124 —	Signal AFM8 T870 T870 — T1215	

D02 Coax or Power & Signal  Receptacle seen from mating side	Housing Receptacle Panel Mount Receptacle Cable Plug		Part Numbers* D02EEH905 D02EPH905 D02PH905	
	Contacts Coax Crimp Socket – RG 316 Coax Solder Cup Socket – RG 316 Coax Crimp Pin – RG316 Coax Solder Cup Pin – RG406 – T-Flex 405 Power Crimp Socket – 12 AWG Power Crimp Pin – 12 AWG Signal Crimp Socket – 22-26 AWG Signal Solder Cup Socket – 22-26 AWG Signal Crimp Pin – 22-26 AWG Signal Solder Cup Pin – 22-26 AWG		Part Numbers** YCX0315–002AH YCX0315–001AH YCX0315–004H YCX0315–003H YSK025–031AH YPN025–024H YSK005–036AH YSK005–037AH YPN005–049H or G YPN005–050H or G	
	Tools			
		Coax Crimp Tool HX3 (Outer) AMF8 (Inner) Crimp Die Set T1958 (Outer) Positioner T1957 (Inner) Removal Tool T1982 Insertion Tool —	Power M309 — T1981 T1982 —	Signal AFM8 — T870 — T1215

*Denotes standard product with quicker availability.

B = Black Polycarbonate Available in Power & Signal
H = Black Polyetherimide (High Temperature) Available in
Coax or Power & Signal

**Plating Reference:

Male Pins: G = 10 µin gold (min) over Ni

H = 50 µin gold (min) over Ni

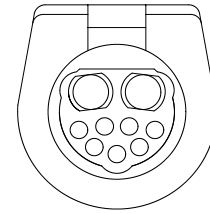
Female Sockets: AH = 50 µin gold (min) over Ni on mating surface, gold flash over Ni on termination

COMBINATION CONNECTORS POWER & SIGNAL

- 2 8-Amp and Up to 7 2-Amp Signal Positions
- Crimp Contacts

General Specifications

Contacts	Power	Signal
Number	2	Up to 7
Diameter	.059 (1.5)	.018 (0.5)
Current Rating (amps)	8	2
Contact Resistance	<2.0 milliohms	<8.0 milliohms
Extraction Force	1.8 to 5.4 oz.	.0.3 to 1.6 oz.
Contact Material	Brass	
Pins	BeCu Wires and Brass body	
Sockets	Polycarbonate	
Insulator Material	Polycarbonate	
Receptacle	UL94V0	
Plug	-40°C to + 85°C	
Flamability	>10 Mohm @ 500 Vdc	
Temperature Rating		
Insulation Resistance		

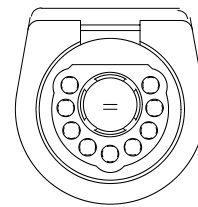


Accessories

	Power	Signal
Crimp Tool	AF8	AFM8
Positioner (Pin)	T1165	T870
Positioner (Socket)	TP688	T870
Removal Tool	T1124	-
Insertion Tool	-	T1215

COMBINATION CONNECTORS COAXIAL, POWER & SIGNAL

- 9 Signal with coax or 25 amp power
- 50Ω Coax, DC to 18 GHz
- Crimp/solder contacts
- Contact life:
Coax >25,000 cycles
Signal >100,000 cycles



General Specifications

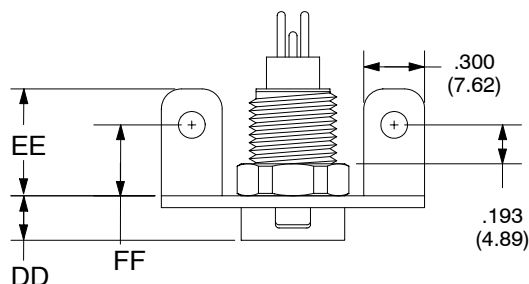
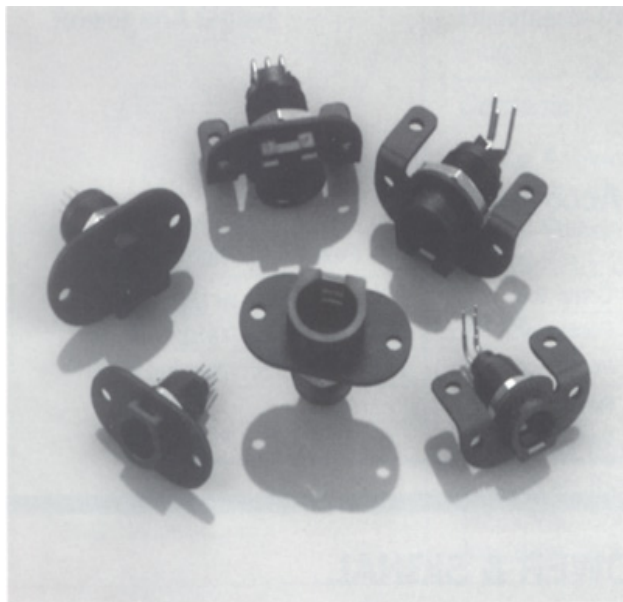
Contacts	Signal Contacts	Power Contact	Coaxial Contact	
Number	9	1	Nominal Impedance	50 ohms
Diameter	.018 (0.5)	0.098 (2.50)	Frequency Range	DC to 6 GHz or maximum operating frequency of the selected cable
Current Rating (amps)	2	25	Electrical (Based on RG-405 Semi Rigid Cable)	
Contact Resistance	<5 milliohms	<1.5 milliohms	Voltage Standing Wave Ratio (VSWR)	(DC to 3GHz) 1.20:1 max. (3GHz to 18GHz) 1.40:1 max.
Extraction Force	1.8 to 5.4 oz.	3.0 to 17 oz.	RF Transmission Loss	0.30 dB max. @ 3 GHz
Temperature Rating	-55°C to +125°C			
Contact Life Cycles	>100,000	>100,000	>25,000	

Accessories

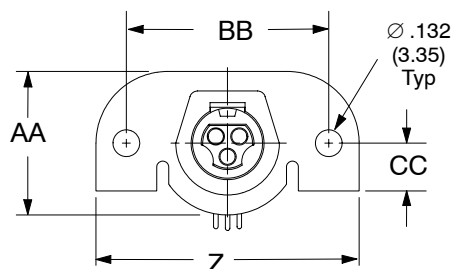
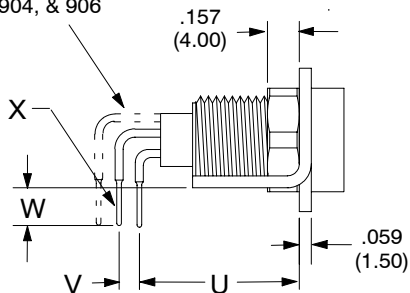
	Signal	Power	Coaxial
Crimp Tool	AFM8	M309	HX3 (Outer) AMF8 (Inner)
Crimp Die Set	--	--	T1958 (Outer)
Positioner	T870	T1981	T1957 (Inner)
Removal Tool	--	T1982	T1982
Insertion Tool	T1271	--	--

D SERIES

PRINTED CIRCUIT BOARD RECEPTACLES (Right Angle) (D01 306, D01 406, D01 904, D02 315, D02 706, D02 906 D02 125 & D02 2504)



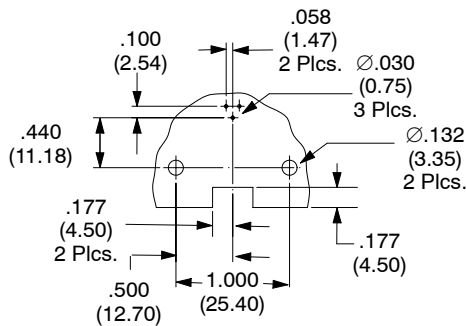
2 Rows: 306, 315, & 406
3 Rows: 706, 904, & 906
4 Rows: 125
6 Rows: 2504



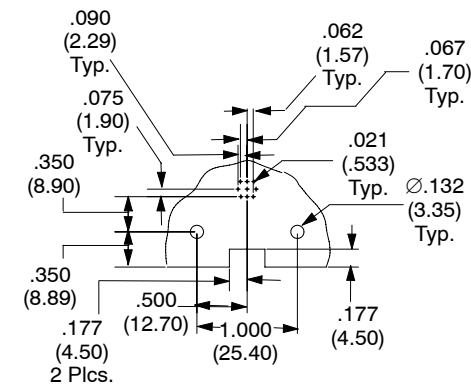
NOTE: Dimensions in inches (mm)

Dimension	D01 Housing 3&4 Position	D01 Housing 9 Position	D02 Housing 3 Position	D02 Housing 7 & 9 Position	D02 Housing 12 Position	D02 Housing 25 Position
U	.790 (20.07)	.700 (17.79)	.834 (21.19)	.742 (18.85)	.689 (17.50)	.655 (16.65)
V	.100 (2.54)	.075 (1.90)	.150 (3.81)	.100 (2.54)	.100 (2.54)	.075 (1.90)
W	.187 (4.74)	.181 (4.60)	.184 (4.68)	.177 (4.50)	.173 (4.39)	.181 (4.60)
X dia.	.024 (.60)	.015 (0.38)	.059 (1.50)	.024 (.60)	.017 (.435)	.015 (0.38)
Z	1.300 (33.02)	1.300 (33.02)	1.500 (38.10)	1.500 (38.10)	1.500 (38.10)	1.500 (38.10)
AA	.709 (18.00)	.709 (18.00)	.866 (22.00)	.866 (22.00)	.866 (22.00)	.866 (22.00)
BB	1.000 (25.40)	1.000 (25.40)	1.200 (30.48)	1.200 (30.48)	1.200 (30.48)	1.200 (30.48)
CC	.236 (6.00)	.236 (6.00)	.315 (8.00)	.315 (8.00)	.315 (8.00)	.315 (8.00)
DD	.220 (5.60)	.220 (5.60)	.335 (8.50)	.335 (8.50)	.335 (8.50)	.335 (8.50)
EE	.528 (13.40)	.528 (13.40)	.610 (15.50)	.610 (15.50)	.610 (15.50)	.610 (15.50)
FF	.350 (8.89)	.350 (8.89)	.400 (10.16)	.400 (10.16)	.400 (10.16)	.400 (10.16)

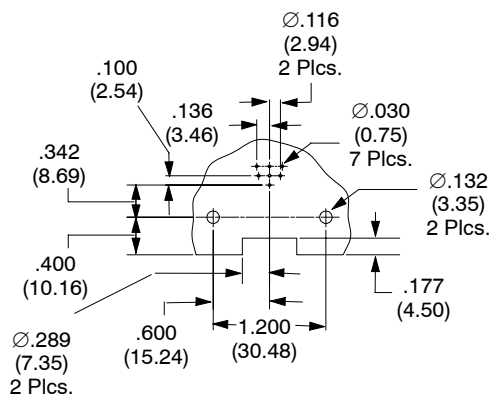
Mounting Dimensions Right Angle Daughter Board Application PC Board Shown From Component Side



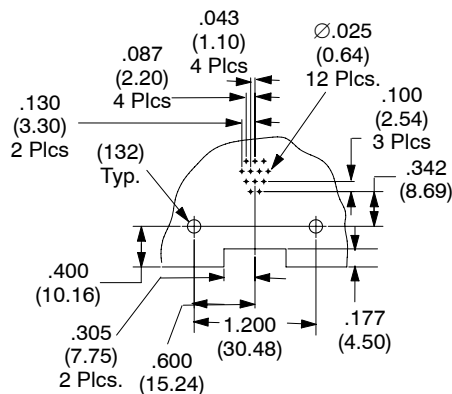
PC Board Layout for D01EEB306FB24TABH



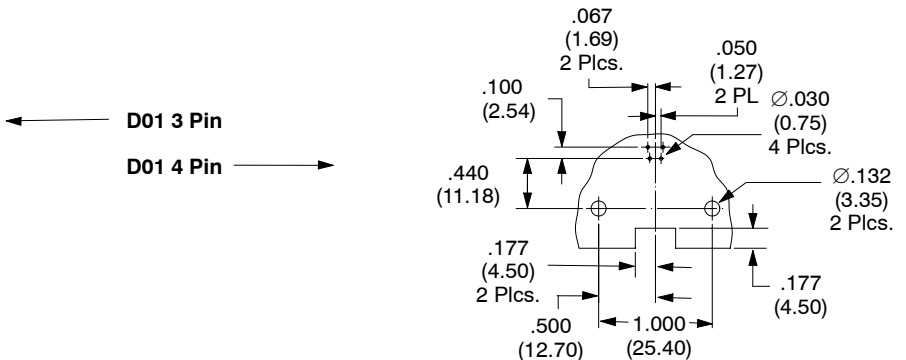
PC Board Layout for D01EEB904FB24UTABH



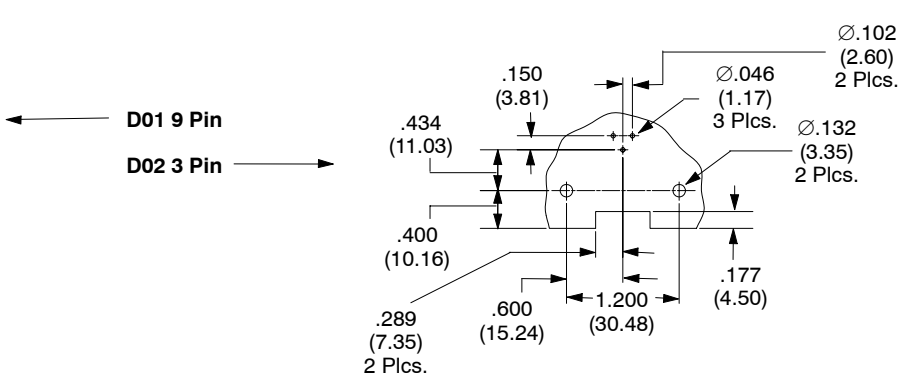
PC Board Layout for D02EEB706FB24TABH



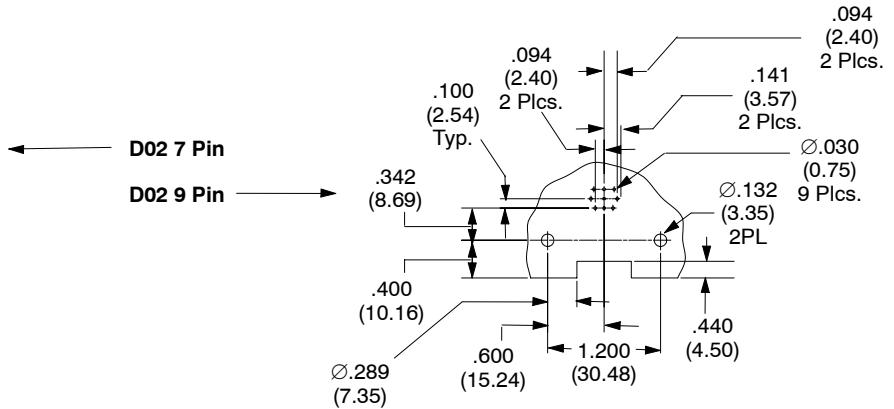
PC Board Layout for D02EEB125FB24TABH



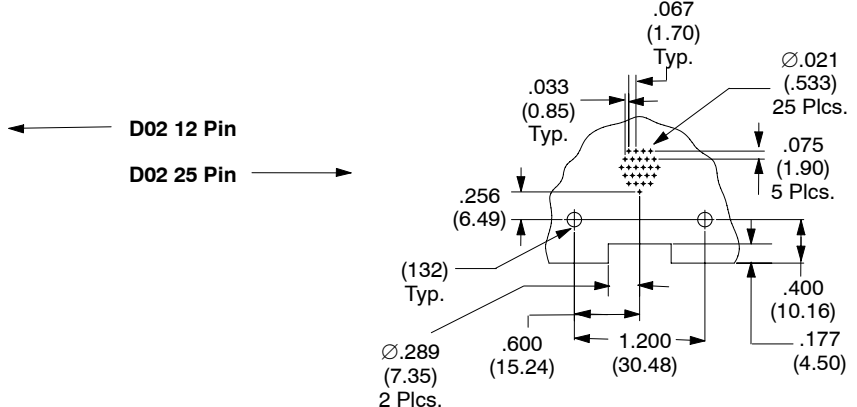
PC Board Layout for D01EEB406FB24TABH



PC Board Layout for D02EEB315FB24TABH



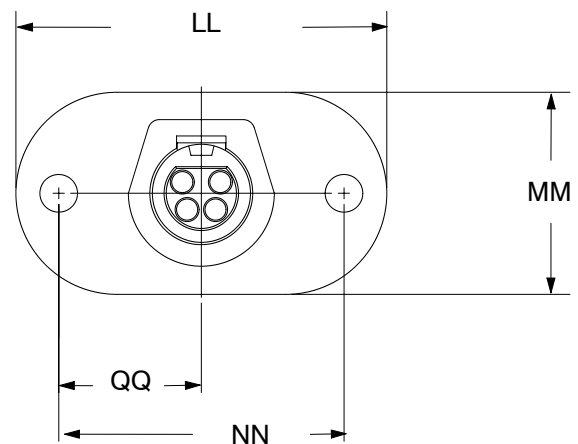
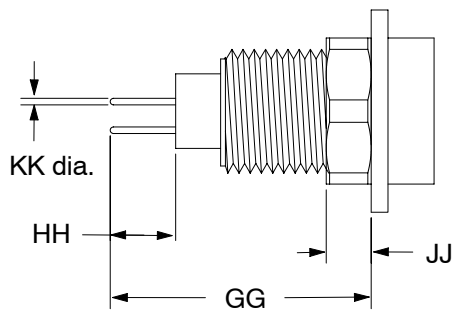
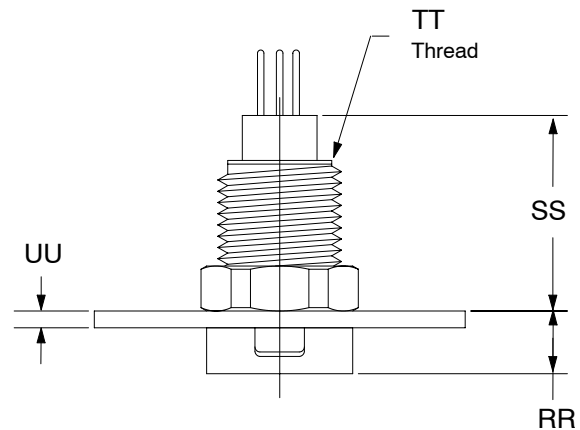
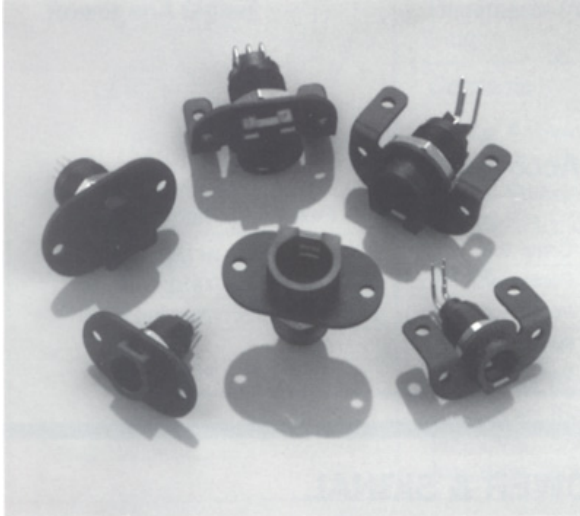
PC Board Layout for D02EEB906FB24TABH



PC Board Layout for D02EEB2504FB24UTABH

D SERIES

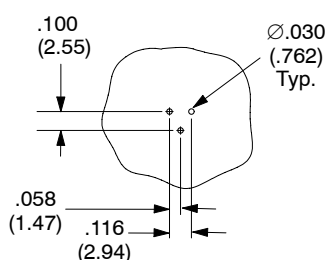
Printed Circuit Board Receptacles (Straight Dip Solder) (D01 306, D01 406, D01 904, D02 315, D02 706, D02 906, D02 125, & D02 2504)



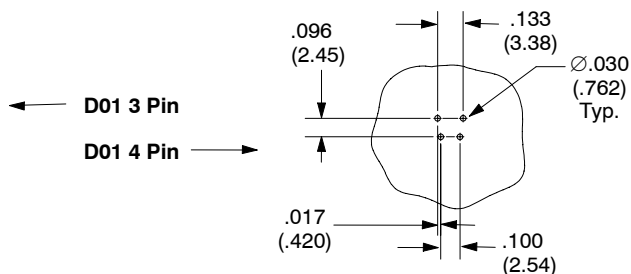
NOTE: Dimensions in inches (mm)

Dimension	D01 Housing 3&4 Position	D01 Housing 9 Position	D02 Housing 3 Position	D02 Housing 7 & 9 Position	D02 Housing 12 Position	D02 Housing 25 Position
GG	.914 (23.23)	.866 (22.00)	1.059 (26.91)	.989 (25.12)	.923 (23.45)	.870 (22.10)
HH	.229 (5.82)	.181 (4.60)	.193 (4.91)	.221 (5.61)	.313 (7.94)	.260 (4.60)
JJ	.157 (4.00)	.157 (4.00)	.157 (4.00)	.157 (4.00)	.157 (4.00)	.157 (4.00)
KK	.023 (0.58)	.015 (0.38)	.039 (1.00)	.023 (0.58)	.017 (0.43)	.015 (0.38)
LL	1.300 (33.02)	1.300 (33.02)	1.500 (38.10)	1.500 (38.10)	1.500 (38.10)	1.500 (38.10)
MM	.709 (18.00)	.709 (18.00)	.866 (22.00)	.866 (22.00)	.866 (22.00)	.866 (22.00)
NN	1.000 (25.40)	1.000 (25.40)	1.200 (30.48)	1.200 (30.48)	1.200 (30.48)	1.200 (30.48)
QQ	.500 (12.70)	.500 (12.70)	.600 (15.24)	.600 (15.24)	.600 (15.24)	.600 (15.24)
RR	.220 (5.60)	.220 (5.60)	.335 (8.50)	.335 (8.50)	.335 (8.50)	.335 (8.50)
SS	.685 (17.40)	.685 (17.40)	.866 (22.00)	.768 (19.50)	.689 (17.50)	.689 (17.50)
TT	M11 x 1.00 Thd	M11 x 1.00 Thd	M15 x 1.00 Thd	M15 x 1.00 Thd	M15 x 1.00 Thd	M15 x 1.00 Thd
UU	.059 (1.50)	.059 (1.50)	.059 (1.50)	.059 (1.50)	.059 (1.50)	.059 (1.50)

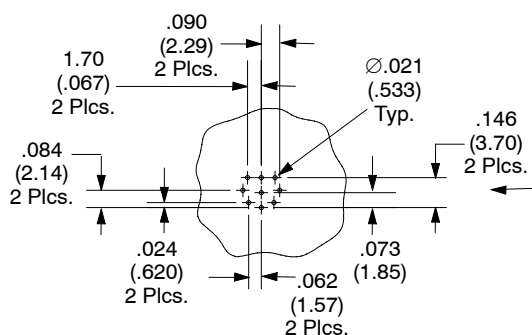
Mounting Dimensions Straight Contact PC Board Application PC Board Shown From Component Side



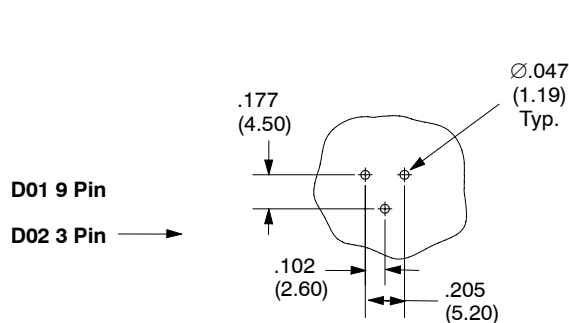
PC Board Layout for D01EEB306FD21TABH



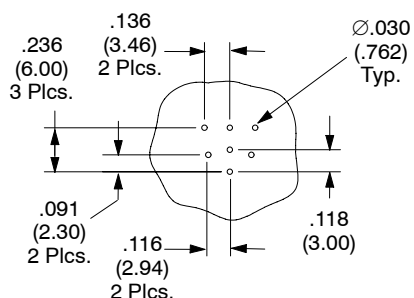
PC Board Layout for D01EEB406FD21TABH



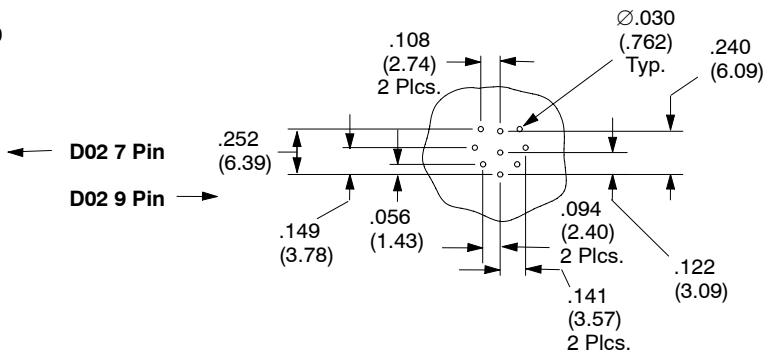
PC Board Layout for D01EEB904FD21UTABH



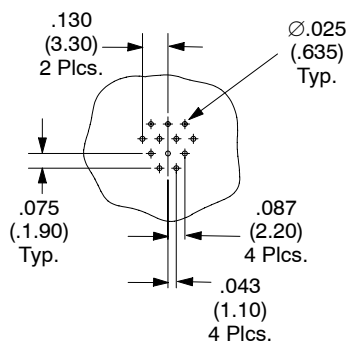
PC Board Layout for D02EEB315FD21TABH



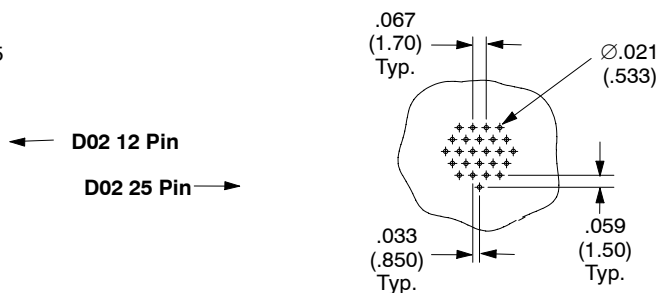
PC Board Layout for D02EEB706FD21TABH



PC Board Layout for D02EEB906FD21TABH



PC Board Layout for D02EEB125FD21TABH

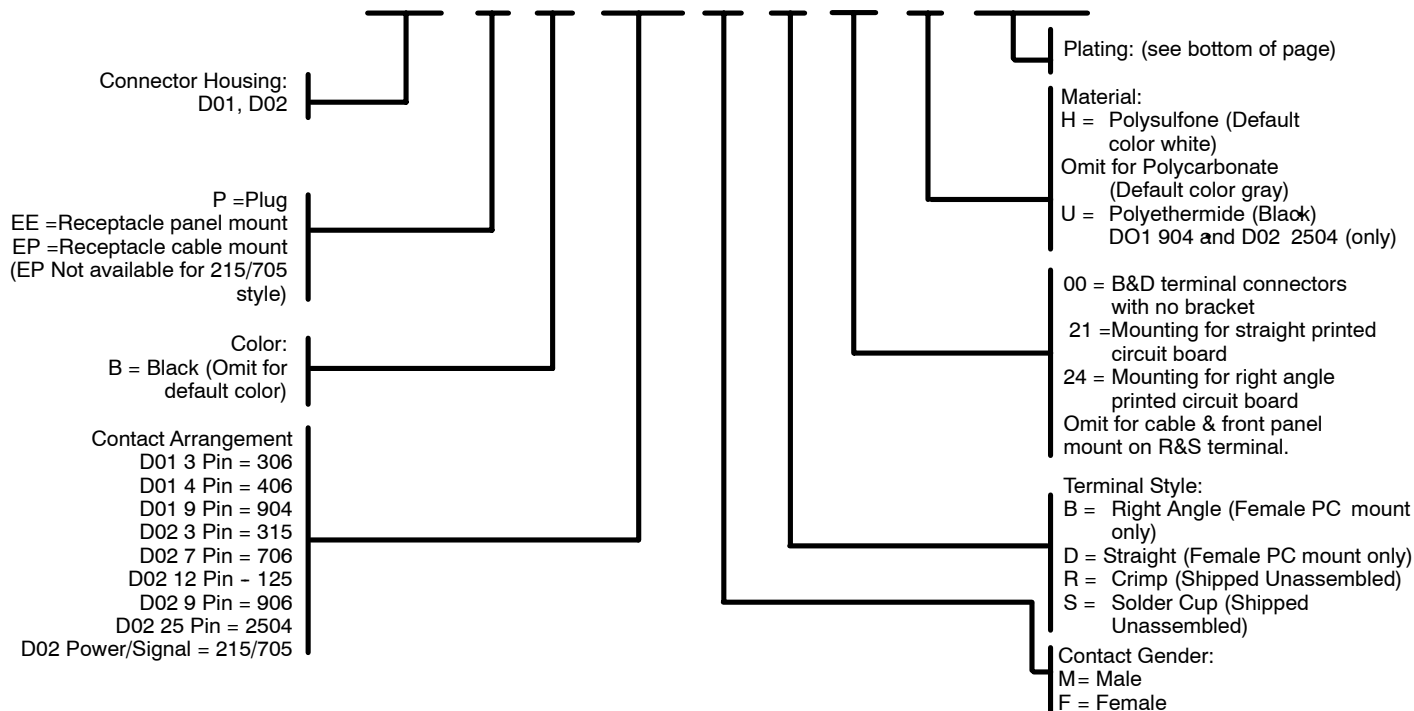


PC Board Layout for D02EEB2504FD21UTABH

D SERIES

ORDERING INFORMATION

D01 P B 306 F B 24 H TABH



D02 COAX OR POWER & SIGNAL ORDERING INFORMATION

D02 P B 905 M R 1C1 M R U TAH

