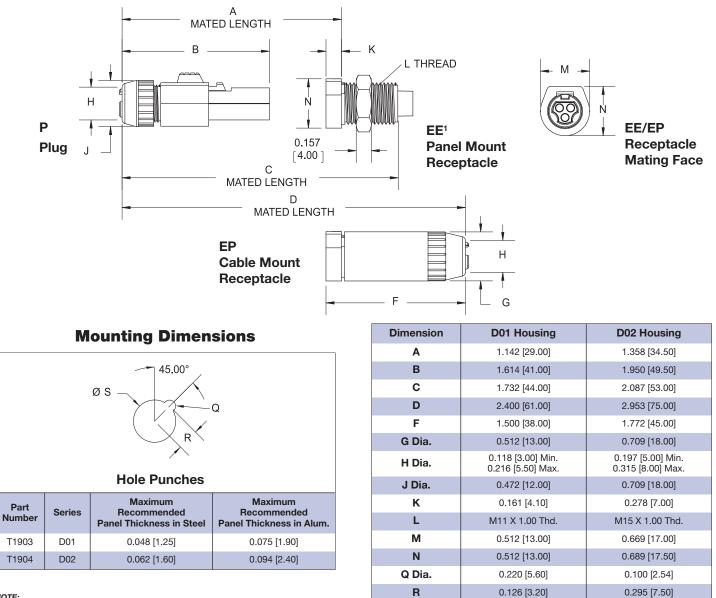




Circular Plastic Connectors

- 3, 4, 7, 9, 12 and 25 position models
- 1 to 8 Amps per contact
- Mixed signal and power or coax available
- 🔊 recognized components File No. 102195
- Each connector half accepts pins or sockets
- High impact plastic body
- Quick disconnect push button release
- · Alignment and polarization provided by housing
- Crimp, solder cup, and pc contacts
- Color coding available



S Dia.

0.441 [11.20]

NOTE:

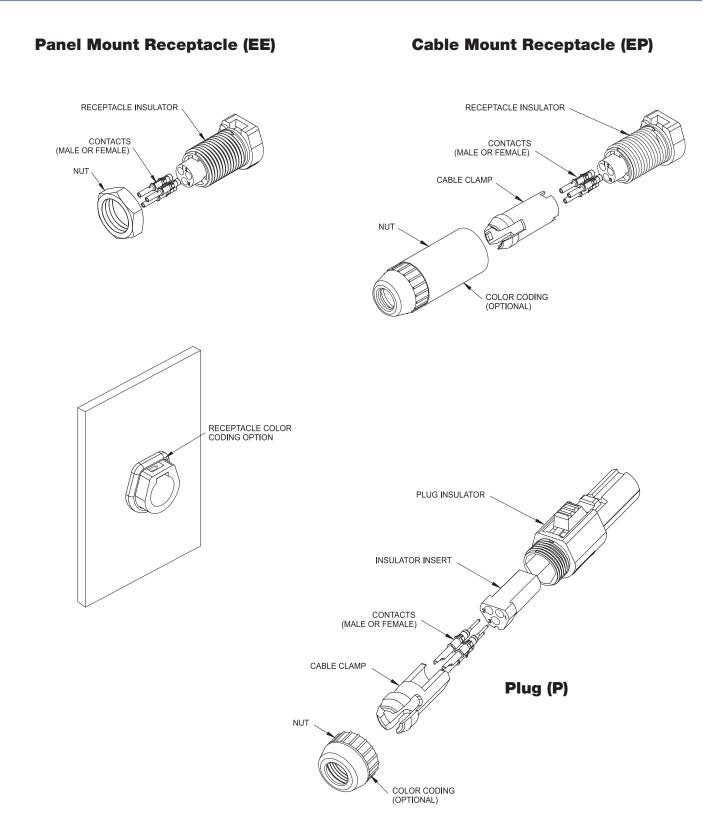
 Recommended tightening torque for panel mount receptacle (0.452–0.678 N•M) for both D01 and D02.

Dimensions are in inches [mm]

0.598 [15.20]

Connector Dimensions







Removal Tool

Insertion Tool

D01 General Specifications						
		3 Pin		4 Pin	9 Pin	
Contact Diameter		0.024 [0.60]	0.024 [0.60]	0.016 [0.40]	
Current Rating (Amps)		4		4	1	
Contact Resistance (milliohms)		< 5		< 5	< 8	
Extraction Force Per Contact (oz.))	0.50 to 2.00	C	0.50 to 2.00	0.60 to 1.60	
Contact Life Cycles		100,000		100,000	100,000	
Breakdown Voltage Between Con	tacts	> 2250V		> 2250V	> 1000V	
Dielectric Withstanding Voltage		1650V		1650V	750V	
Contact						
Socket Material			Berylliu	Im copper wires and brass b	body (socket)	
Pin Material				Brass (pin)		
Plating Material				Gold over nickel		
Insulation Resistance				$> 10^3$ megohms at 500 V	'DC	
Temperature Rating*						
Polycarbonate (D01 - 3 and 4 pin of	nly)	-40° C to 85° C			-	
Polyetherimide (D01 - 9 pin only)	-		-40° C to 125° C*			
Accessories		3 Pin		4 Pin	9 Pin	
Crimp Tool	AFM8 or	(M22520/2-01)	AFN	/18 or (M22520/2-01)	AFM8 or (M22520/2-01)	
Positioner		K547		K547	T1914	

S/DEM1.0060

T1866

S/DEM1.0060

T1866

D02 General Specifications							
		3 Pin	7 Pin	9 Pin	12 Pin	25 Pin	
Contact Diameter		0.059 [1.50]	0.024 [0.60]	0.024 [0.60]	0.018 [0.50]	0.016 [0.40]	
Current Rating (Amps)		8	4	4	2.5	1	
Contact Resistance (million	ıms)	< 2	< 5	< 5	< 8	< 8	
Extraction Force Per Conta	act (oz.)	1.80 to 5.40	0.50 to 2.00	0.50 to 2.00	0.30 to 1.60	0.30 to 1.60	
Contact Life Cycles		100,000	100,000	100,000	100,000	100,000	
Breakdown Voltage Betwe	en Contacts	> 2250	> 2000	> 1560	> 1000	> 1000	
Dielectric Withstanding Voltage		1650	1500	1150	750	750	
Contact			1				
Socket Material		Beryllium copper wires and brass body (socket)					
Pin Material		Brass (pin)					
Plating Material				Gold over nicke	I		
Insulation Resistance			>	10 ³ megohms at 500	VDC		
Temperature Rating*							
Polycarbonate (D02 - 3, 7, 9	and 12 pin only)	-40° C to 85° C —					
Polyetherimide (D02 - 25 pi	n only)	40° C to 125° C					
Accessories	3 Pin	7 a	nd 9 Pin	12 Pin		25 Pin	
Crimp Tool	AF8	AFM8 or M22520/2-01		AFM8 or M22520/2-01		AFM8 or M22520/2-01	
Positioner	TP688	K623		T870		T1914	
Removal Tool	S/DEM5.0150	S/DEM1.0060		_		_	
Insertion Tool	T1888		T1866	T1271		T1916	

*If color coding option is specified, maximum temperature rating is 85° C.

Dimensions are in inches [mm]

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T1916

D Series



Dod	Housing Options	Example Part Numbers	
D01			
3 Pin	Receptacle Panel Mount Receptacle Cable Plug	D01EEB306FRTAH D01EPB306FRTAH D01PB306MRT	
	Contact Options		
	Crimp Socket – 22-26 AWG Crimp Socket – 18-20 AWG Solder Cup Socket – up to 22 AWG Crimp Pin – 22-26 AWG Crimp Pin –18-20 AWG Solder Cup Pin – up to 22 AWG	See part number configurator on page 2/17 for complete ordering information.	
	Tools		
Receptacle seen from mating side	Crimp Tool Crimp Positioner Removal Tool Insertion Tool	AFM8 or M22520/2-01 K547 S/DEM1.0060 T1866	
D01	Housing Options	Example Part Numbers	
4 Pin	Receptacle Panel Mount Receptacle Cable Plug	D01EEB406FRTAH D01EPB406FRTAH D01PB406MRT	
	Contact Options		
	Crimp Socket – 22-26 AWG Crimp Socket – 18-20 AWG Solder Cup Socket – up to 22 AWG Crimp Pin – 22-26 AWG Crimp Pin –18-20 AWG Solder Cup Pin – up to 22 AWG	See part number configurator on page 2/17 for complete ordering information.	
	Tools		
Receptacle seen from mating side	Crimp Tool Crimp Positioner Removal Tool Insertion Tool	AFM8 or M22520/2-01 K547 S/DEM1.0060 T1866	
	·	·	
D01	Housing Options	Example Part Numbers	
9 Pin	Receptacle Panel Mount Receptacle Cable Plug	D01EEB904FRUTAH D01EPB904FRUTAH D01PB904MRUT	
	Contact Options	See part number configurator on page 2/17	
	Crimp Socket – 26-28 AWG Solder Cup Socket – up to 26 AWG Crimp Pin – 26-28 AWG Solder Cup Pin – up to 26 AWG	for complete ordering information.	

Receptacle seen from mating side

Solder Cup Socket – 20-28 AWG Solder Cup Socket – up to 26 AWG Crimp Pin – 26-28 AWG Solder Cup Pin – up to 26 AWG	
Tools	
Crimp Tool Crimp Positioner Insertion Tool	AFM8 or M22520/2-01 T1914 T1916



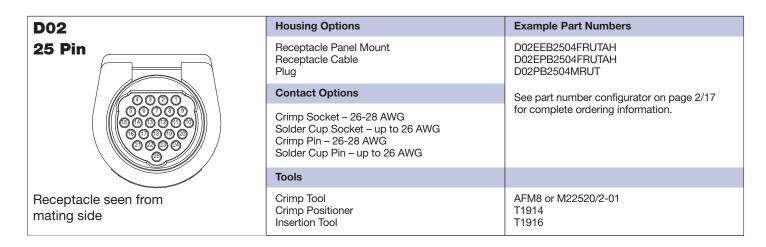
D02	Housing Options	Example Part Numbers
3 Pin	Receptacle Panel Mount Receptacle Cable Plug	D02EEB315FRTAH D02EPB315FRTAH D02PB315MRT
	Contact Options	See part number configurator on page 2/17
	Crimp Socket – 18 and 20 AWG Solder Cup Socket – up to 16 AWG Crimp Pin –18 and 20 AWG Solder Cup Pin – up to 16 AWG	for complete ordering information.
	Tools	
Receptacle seen from mating side	Crimp Tool Crimp Positioner Removal Tool Insertion Tool	AF8 TP688 S/DEM5.0150 T1888
D02	Housing Options	Example Part Numbers
7 Pin	Receptacle Panel Mount Receptacle Cable Plug	D02EEB706FRTAH D02EPB706FRTAH D02PB706MRT
	Contact Options	See part number configurator on page 2/17
	Crimp Socket – 22-26 AWG Solder Cup Socket – up to 22 AWG Crimp Pin – 22-26 AWG Solder Cup Pin – up to 22 AWG	for complete ordering information.
	Tools	
Receptacle seen from mating side	Crimp Tool Crimp Positioner Removal Tool Insertion Tool	AFM8 or M22520/2-01 K623 S/DEM1.0060 T1866

D02	Housing Options	Example Part Numbers
9 Pin	Receptacle Panel Mount Receptacle Cable Plug	D02EEB906FRTAH D02EPB906FRTAH D02PB906MRT
	Contact Options	See part number configurator on page 2/17
	Crimp Socket – 22-26 AWG Solder Cup Socket – up to 22 AWG Crimp Pin – 22-26 AWG Solder Cup Pin – up to 22 AWG	for complete ordering information.
	Tools	
Receptacle seen from mating side	Crimp Tool Crimp Positioner Removal Tool Insertion Tool	AFM8 or M22520/2-01 K623 S/DEM1.0060 T1866

D Series



D02	Housing Options	Example Part Numbers
12 Pin	Receptacle Panel Mount Receptacle Cable Plug	D02EEB125FRTAH D02EPB125FRTAH D02PB125MRT
	Contact Options	See part number configurator on page 2/17
$ \left(\begin{array}{c} (32)(1)\\ (4567)\\ (890)\\ (112) \end{array}\right) $	Crimp Socket – 22-26 AWG Solder Cup Socket – up to 22 AWG Crimp Pin – 22-26 AWG Solder Cup Pin – up to 22 AWG	for complete ordering information.
	Tools	
Receptacle seen from mating side	Crimp Tool Crimp Positioner Insertion Tool	AFM8 or M22520/2-01* T870 T1271



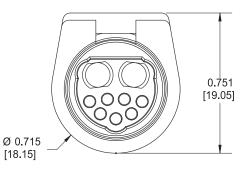


Combination Connectors Power and Signal

• Two 8 Amp and seven 2.5 Amp Signal Contacts • Crimp Contacts

D02	Housing Options	Example Part Numbers*	
Power and Signal	Receptacle Panel Mount Plug	D02EEB215/705FRTAH D02PB215/705MRT	
	Contact Options	See part number configurator on page 2/17	
9 8	Power Socket – 16-20 AWG Power Pin – 16-20 AWG Signal Socket – 22-26 AWG Signal Pin – 22-26 AWG	for complete ordering information.	
0000	Tools		
Receptacle seen from mating side	Crimp Tool Crimp Positioner (Pin) Crimp Positioner (Socket) Removal Tool Insertion Tool	Power Signal AF8 AFM8 T1164 T870 TP688 T870 T1124 - - T1215	

General Specifications				
Contacts	Power	Signal		
Number of Contacts	2	7		
Diameter	0.059 [1.50]	0.018 [0.50]		
Current Rating (Amps)	8	2.50		
Contact Resistance	< 2.0 milliohms	< 8.0 milliohms		
Extraction Force	1.8 to 5.4 oz.	0.3 to 1.6 oz.		
Contact Material				
Pins Sockets	Brass Beryllium copper wires and brass body			
Insulator Material				
Receptacle Plug	Polycarbonate Polycarbonate			
Flammability	UL94V0			
Temperature Rating	-40° C to 85° C			
Insulation Resistance	> 10 Mohm at 500 VDC			



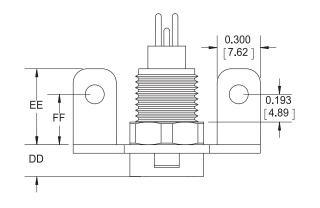
D Series

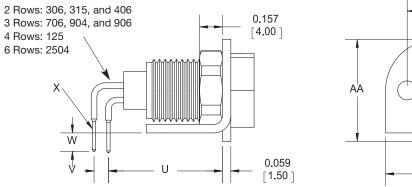


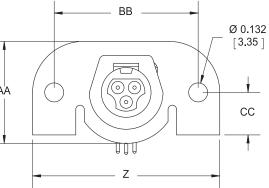
Combination Connectors Coax or Power and Signal

D02	Housing Options		Example Part Numbe	ers ¹
Coax or Power and Signal	Receptacle Panel Mount Receptacle Cable Plug		D02EEB905FR1C1FRUTHA D02EPB905FR1C1FRUTHA D02PB905MR1C1MRUT	
	Contact Options			
Receptacle seen from	Coax Crimp Socket – RRG 316 Coax Solder Cup Socket – RG4 Coax Crimp Pin – RG316, RG3 Coax Solder Cup Pin – RG405, Power Crimp Socket – 12 AWG Power Crimp Pin – 12 AWG Signal Crimp Socket – 22-26 A Signal Solder Cup Socket – 22- Signal Crimp Pin – 22-26 AWG Signal Solder Cup Pin – 22-26 AWG	405, T-Flex 405 16DB T-Flex 405 3 WG -26 AWG	See part number configurator on page 2/17 for complete ordering information.	
mating side	Tools		I	
	Crimp Tool Crimp Die Set Crimp Positioner Removal Tool Insertion Tool	Coax HX3 (Outer) AFM8 (Inner) T1958 (Outer) or T2019 (Outer for RG316DB) T1957 (Inner) T1982 -	Power M309 T1981 T1982 	Signal AFM8 - - - T870 - T1215

Printed Circuit Board Receptacles (Right Angle)





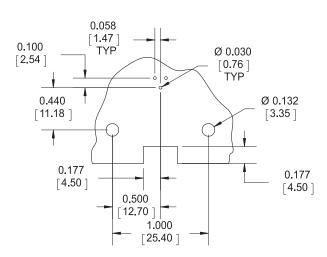


Dimension	D01 Housing 3 and 4 Position	D01 Housing 9 Position	D02 Housing 3 Position	D02 Housing 7 and 9 Position	D02 Housing 12 Position	D02 Housing 25 Position
U	0.790 [20.07]	0.700 [17.79]	0.834 [21.19]	0.742 [18.85]	0.689 [17.50]	0.655 [16.65]
v	0.100 [2.54]	0.075 [1.90]	0.150 [3.81]	0.100 [2.54]	0.100 [2.54]	0.075 [1.90]
w	0.187 [4.74]	0.181 [4.60]	0.184 [4.68]	0.177 [4.50]	0.173 [4.39]	0.181 [4.60]
X Dia.	0.024 [0.60]	0.015 [0.38]	0.059 [1.50]	0.024 [0.60]	0.017 [0.435]	0.015 [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	0.709 [18.00]	0.709 [18.00]	0.866 [22.00]	0.866 [22.00]	0.866 [22.00]	0.866 [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]
СС	0.236 [6.00]	0.236 [6.00]	0.315 [8.00]	0.315 [8.00]	0.315 [8.00]	0.315 [8.00]
DD	0.220 [5.60]	0.220 [5.60]	0.335 [8.50]	0.335 [8.50]	0.335 [8.50]	0.335 [8.50]
EE	0.528 [13.40]	0.528 [13.40]	0.610 [15.50]	0.610 [15.50]	0.610 [15.50]	0.610 [15.50]
FF	0.350 [8.89]	0.350 [8.89]	0.400 [10.16]	0.400 [10.16]	0.400 [10.16]	0.400 [10.16]

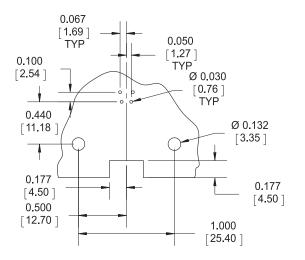


Right Angle Daughter Board Application

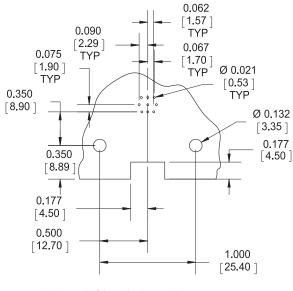
Printed Circuit Board Shown From Component Side



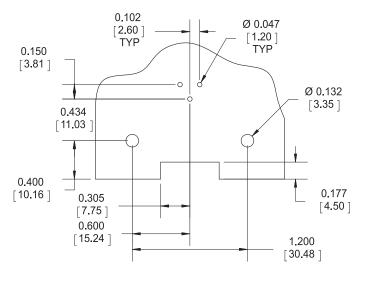




Printed Circuit Board Layout for D01EEB406FB24TABH





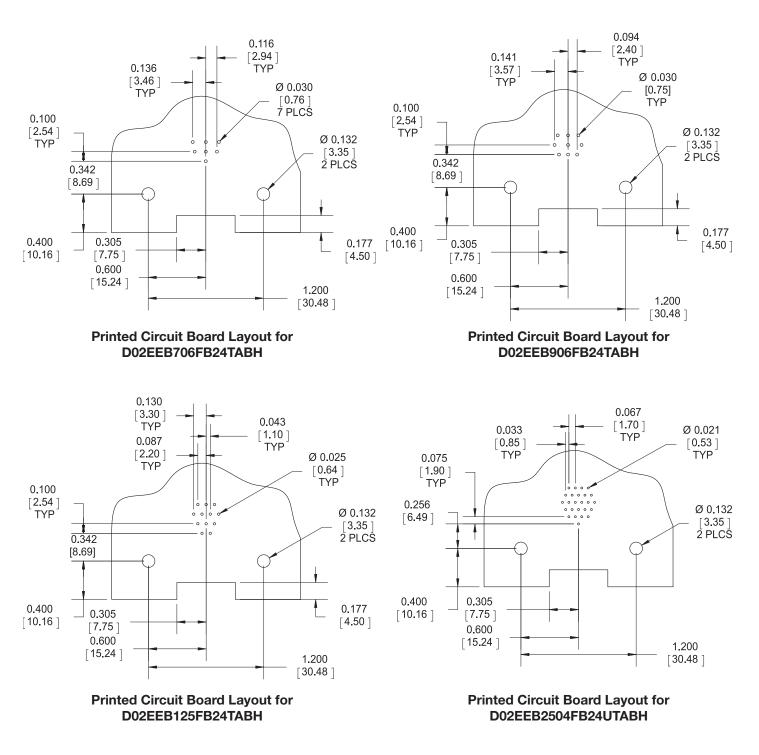


Printed Circuit Board Layout for D02EEB315FB24TABH



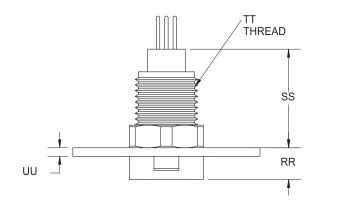
Right Angle Daughter Board Application

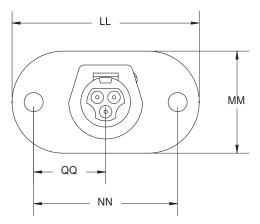
Printed Circuit Board Shown From Component Side

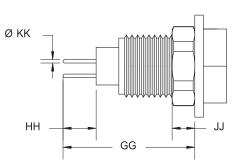




Printed Circuit Board Receptacles (Straight Dip Solder)





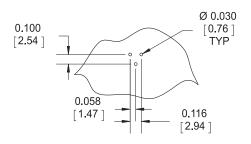


Dimension	D01 Housing 3 and 4 Position	D01 Housing 9 Position	D02 Housing 3 Position	D02 Housing 7 and 9 Position	D02 Housing 12 Position	D02 Housing 25 Position
GG	0.914 [23.23]	0.866 [22.00]	1.059 [26.91]	0.989 [25.12]	0.923 [23.45]	0.870 [22.10]
нн	0.229 [5.82]	0.181 [4.60]	0.193 [4.91]	0.221 [5.61]	0.233 [5.94]	0.260 [4.60]
JJ	0.157 [4.00]	0.157 [4.00]	0.157 [4.00]	0.157 [4.00]	0.157 [4.00]	0.157 [4.00]
КК	0.023 [0.58]	0.015 [0.38]	0.039 [1.00]	0.023 [0.58]	0.017 [0.43]	0.015 [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]
ММ	0.709 [18.00]	0.709 [18.00]	0.866 [22.00]	0.866 [22.00]	0.866 [22.00]	0.866 [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	0.500 [12.70]	0.500 [12.70]	0.600 [15.24]	0.600 [15.24]	0.600 [15.24]	0.600 [15.24]
RR	0.220 [5.60]	0.220 [5.60]	0.335 [8.50]	0.335 [8.50]	0.335 [8.50]	0.335 [8.50]
SS	0.685 [17.40]	0.685 [17.40]	0.866 [22.00]	0.768 [19.50]	0.689 [17.50]	0.689 [17.50]
тт	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	0.059 [1.50]	0.059 [1.50]	0.059 [1.50]	0.059 [1.50]	0.059 [1.50]	0.059 [1.50]



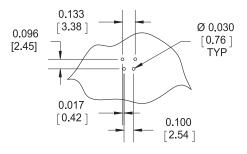
Straight Contact Printed Circuit Board Application

Printed Circuit Board Shown From Component Side

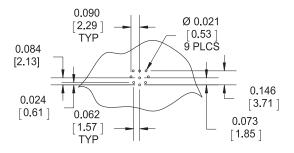


Printed Circuit Board Layout for

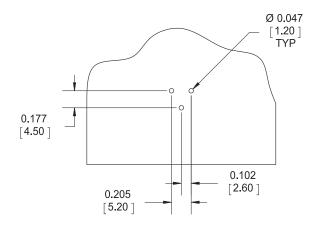
D01EEB306FD21TABH



Printed Circuit Board Layout for D01EEB406FD21TABH



Printed Circuit Board Layout for D01EEB904FD21UTABH

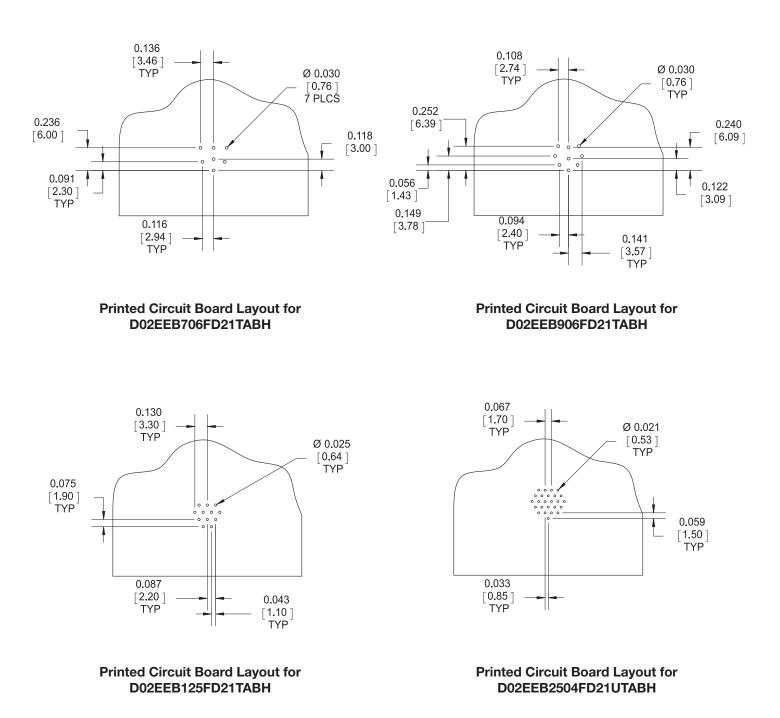


Printed Circuit Board Layout for D02EEB315FD21TABH



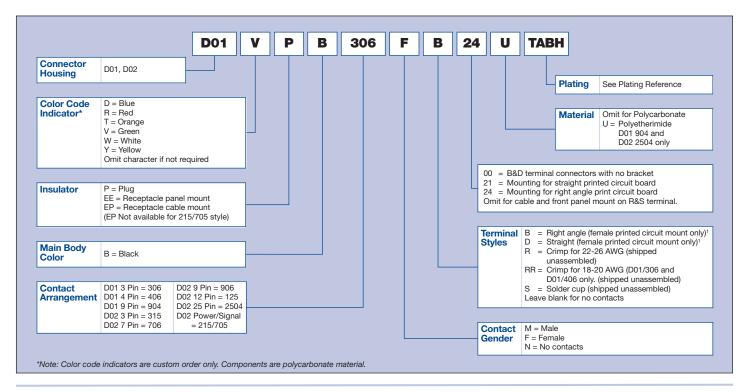
Straight Contact Printed Circuit Board Application

Printed Circuit Board Shown From Component Side

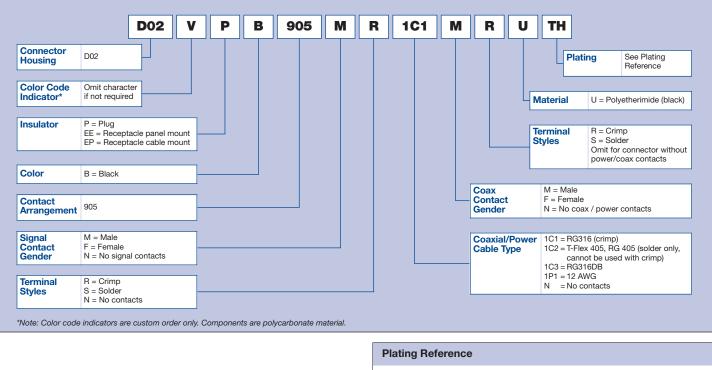




Ordering Information



D02 Coax or Power and Signal Ordering Information



Male Pins:	T = 10μin gold (min) over nickel TH = 50μin gold (min) over nickel
Female Sockets:	TAH = 50µin gold (min) over nickel on mating surface, gold flash over nickel on termination TABH = 50µin gold (min) over nickel on mating surface, tin lead over nickel on termination (D & B only)