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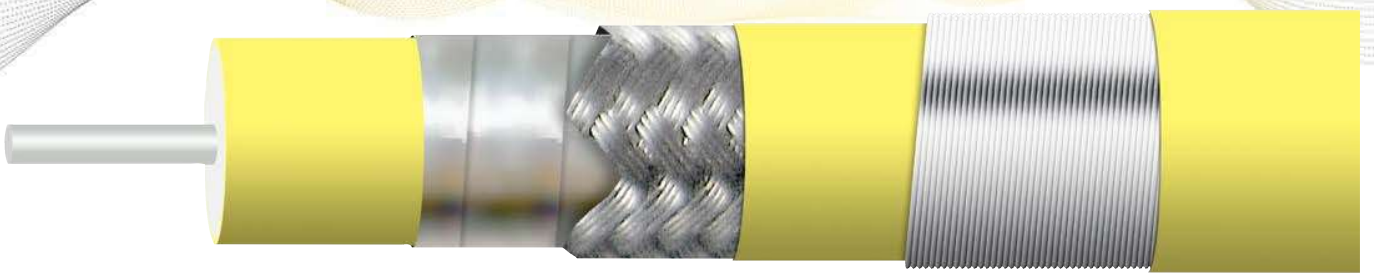
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180 SERIES

OPERATING UP TO 32 GHz



Center Conductor	Dielectric	Foil	Braid	Inner Jacket	Serving	Outer Jacket
Silver Plated Copper 1801/1803 Solid 1806/1808 Stranded	EPTFE	Silver Plated Copper	Silver Plated Copper	FEP (0.188", 4.8mm)	SCCS Armor	FEP (0.260", 6.6mm)

CABLE SPECIFICATIONS

	1801	1806	1803	1808
ELECTRICAL CHARACTERISTICS				
Impedance	50 +/– 2Ω	50 +/– 2Ω	50 +/– 2Ω	50 +/– 2Ω
Cut Off Frequency (cable only, max)	32 GHz	32 GHz	32 GHz	32 GHz
Capacitance	24.5 pF/ft.	24.5 pF/ft.	24.5 pF/ft.	24.5 pF/ft
Velocity of Propagation	83%	83%	83%	83%
Time Delay	1.22 ns/ft.	1.22 ns/ft.	1.22 ns/ft.	1.22 ns/ft.
Shielding Effectiveness up to 18GHz	>90 dB	>90 dB	>90 dB	>90 dB
Cable Attenuation Factors (K1, K2) *	7.8, 0.165	9.0, 0.190	7.8, 0.165	9.0, 0.190
Power Handling	See Chart	See Chart	See Chart	See Chart
MECHANICAL CHARACTERISTICS				
Weight	.59 oz/ft (55 g/m)	.56 oz/ft (52 g/m)	1.39 oz/ft (129 g/m)	1.34 oz/ft (92 g/m)
Static Bend Radius	0.75" (19mm)	0.625" (15.9mm)	0.875" (22.2mm)	0.875" (22.2mm)
Dynamic Bend Radius	1.25" (31.75mm)	1.25" (31.75 mm)	1.75" (44.5mm)	1.75" (44.5mm)
ENVIRONMENTAL CHARACTERISTICS				
Operating Temperature Range [1]	-65°C to +200°C	-65°C to +200°C	-65°C to +200°C	-65°C to +200°C
RoHS 3 (EU 2015/863) Yes	Yes	Yes	Yes	Yes

[1] Standard cable assembly temperature range is -55°C to +165°C, -65°C to +200°C available for select configurations

VSWR for assemblies with two straight connectors	1.35:1 to 18 GHz	1.35:1 to 18 GHz	1.35:1 to 18 GHz	1.35:1 to 18 GHz
VSWR for assemblies with one straight and one right angle connector	1.40:1 to 18 GHz	1.40:1 to 18 GHz	1.40:1 to 18 GHz	1.40:1 to 18 GHz
VSWR for assemblies with two right angle connectors	1.45:1 to 18 GHz	1.45:1 to 18 GHz	1.45:1 to 18 GHz	1.45:1 to 18 GHz
VSWR for assemblies with two straight 3.5mm connectors	1.35:1 to 26.5 GHz	1.35:1 to 26.5 GHz	1.35:1 to 26.5 GHz	1.35:1 to 26.5 GHz

*Attenuation = $K1\sqrt{f} + K2f$ (cable only)

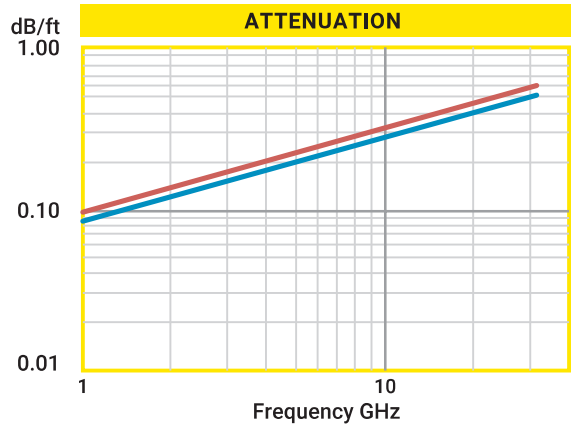
180 SERIES

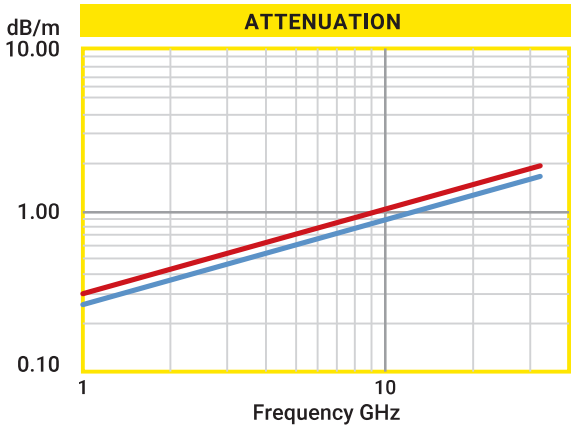
OPERATING UP TO 32 GHz

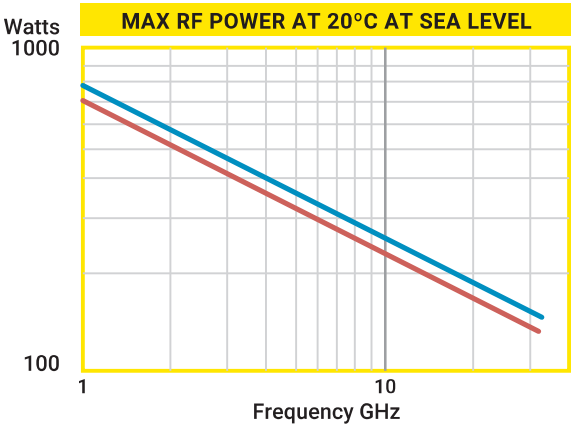
CABLE ATTENUATION

ATTENUATION (MAX)

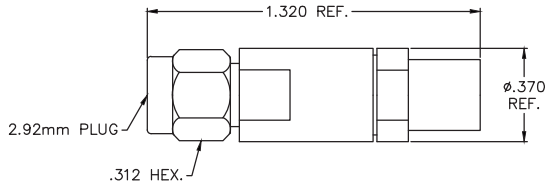
	1801/1803			1806/1808		
GHz	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level
0.5	0.06	0.18	1044	0.06	0.21	931
1	0.08	0.26	800	0.09	0.30	714
2	0.11	0.37	550	0.13	0.43	491
4	0.16	0.53	400	0.19	0.61	357
6	0.20	0.66	320	0.23	0.75	286
8	0.23	0.77	290	0.27	0.88	259
10	0.26	0.86	250	0.30	0.99	223
12	0.29	0.95	220	0.33	1.09	196
14	0.31	1.03	210	0.36	1.18	188
16	0.34	1.11	200	0.39	1.27	179
18	0.36	1.18	195	0.42	1.35	174
20	0.38	1.25	190	0.44	1.44	170
22	0.40	1.32	185	0.46	1.52	165
24	0.42	1.38	180	0.49	1.60	161
26	0.44	1.45	175	0.51	1.67	156
28	0.46	1.51	170	0.53	1.74	152
30	0.48	1.56	160	0.55	1.80	143
31	0.49	1.59	155	0.56	1.87	138
32	0.49	1.62	150	0.57	1.87	136



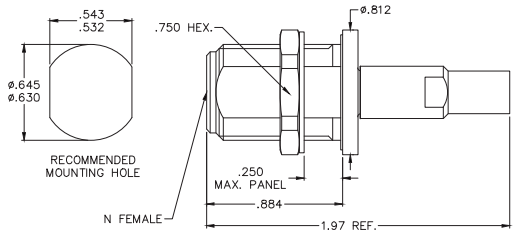




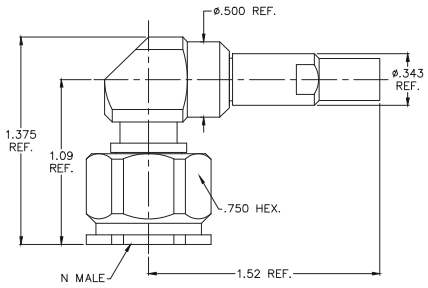
CONNECTORS FOR 180 SERIES



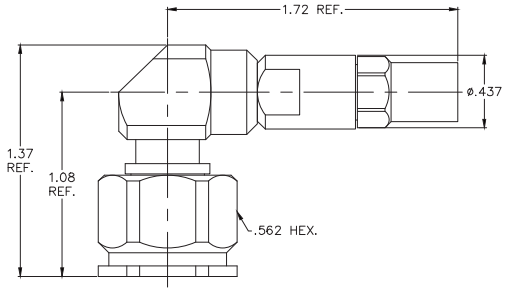
2.92MM MALE (KPS-1801)



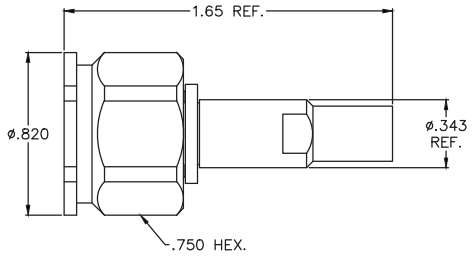
N-TYPE FEMALE BULKHEAD (NJB-1801)



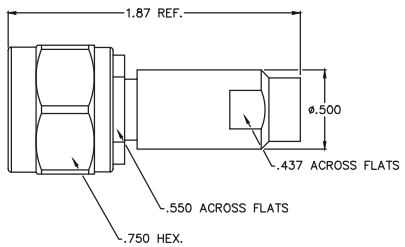
N-TYPE MALE RIGHT ANGLE (NPR-1801)



N-TYPE MALE RIGHT ANGLE (NPR-1803)



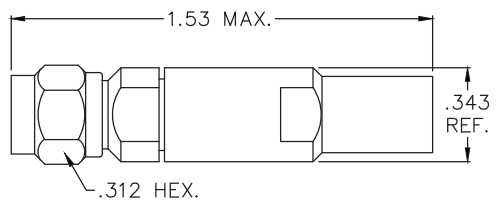
N-TYPE MALE (NPS-1801)



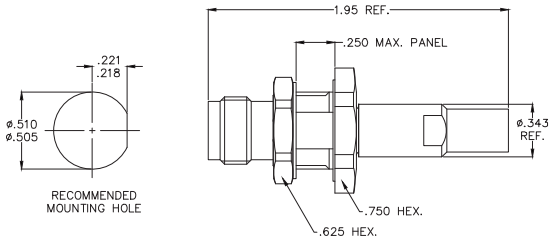
N-TYPE MALE (NPS-1803)

Other connector types and styles are available, please contact the factory

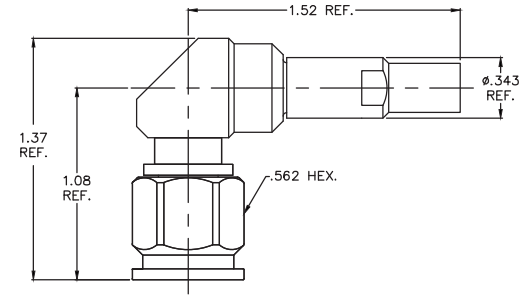
CONNECTORS FOR 180 SERIES



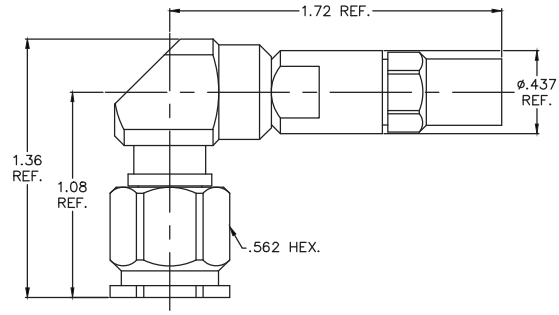
SMA MALE (SPS-1801)



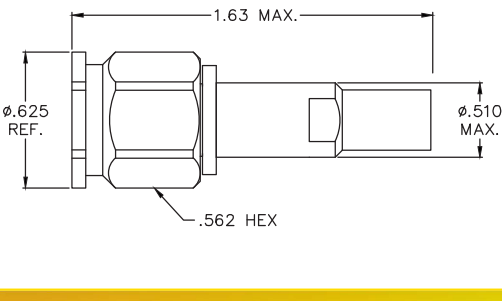
TNC FEMALE BULKHEAD (TJB-1801)



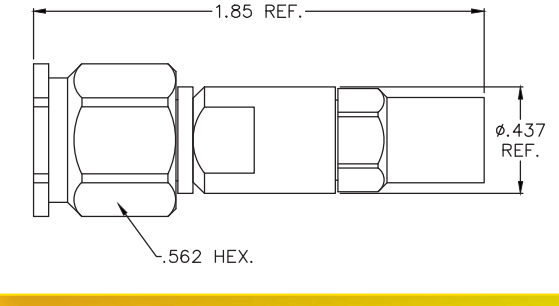
TNC MALE RIGHT ANGLE (TPR-1801)



TNC MALE RIGHT ANGLE (TPR-1803)



TNC MALE (TPS-1801)



TNC MALE (TPS-1803)

Other connector types and styles are available, please contact the factory

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