160 SERIES

OPERATING UP TO 34 GHz

Center Conductor	Dielectric	Foil	Braid	Inner Jacket	Serving	Outer Jacket
Silver Plated Copper 1601/1603 Solid 1606/1608 Stranded	EPTFE	Silver Plated Copper	Silver Plated Copper	FEP (0.160", 4.8mm)	SCCS Armor	FEP (0.218", 5.5mm)

CABLE SPECIFICATIONS

	1601	1606	1603	1608
ELECTRICAL CHARACTERISTICS				
Impedance	50 +/– 2Ω	50 +/– 2Ω	50 +/– 2Ω	50 +/– 2Ω
Cut Off Frequency (cable only, max)	34 GHz	34 GHz	34 GHz	34 GHz
Capacitance	28.6 pF/ft.	28.6 pF/ft.	28.6 pF/ft.	28.6 pF/ft.
Velocity of Propagation	71%	71%	71%	71%
Time Delay	1.43 ns/ft.	1.43 ns/ft.	1.43 ns/ft.	1.43 ns/ft.
Shielding Effectiveness up to 18GHz	>90 dB	>90 dB	>90 dB	>90 dB
Cable Attenuation Factors (K1, K2) *	10.9, 0.89	12.2, 0.89	10.9, 0.89	12.2, 0.89
Power Handling	See Chart	See Chart	See Chart	See Chart
MECHANICAL CHARACTERISTICS				
Weight	.5 oz/ft (46 g/m)	.5 oz/ft (46 g/m)	1.0 oz/ft (97 g/m)	.98 oz/ft (92 g/m)
Static Bend Radius	0.375" (9.52 mm)	0.375" (9.52 mm)	0.675" (17.14mm)	0.625" (15.87mm)
Dynamic Bend Radius	1.0"(25.4mm)	1.0" (25.4mm)	1.5" (38.1mm)	1.5" (38.1 mm)
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
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

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

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

1601 is a flexible replacement for RG402 cable

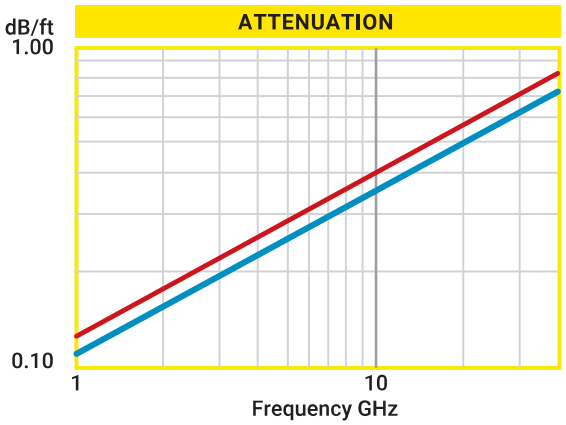
160 SERIES

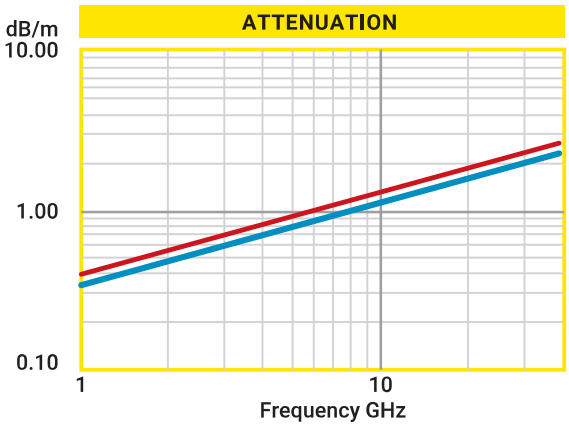
OPERATING UP TO 34 GHz

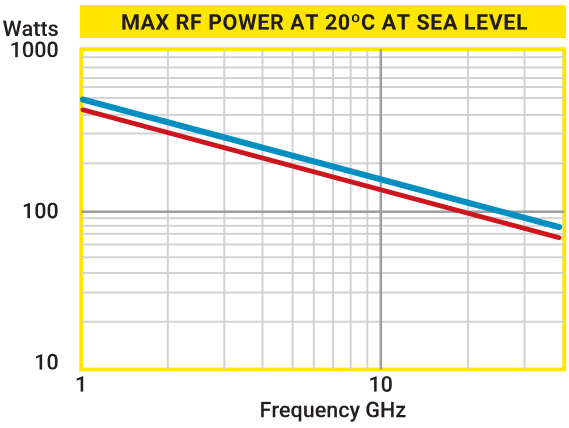
CABLE ATTENUATION

ATTENUATION (MAX)

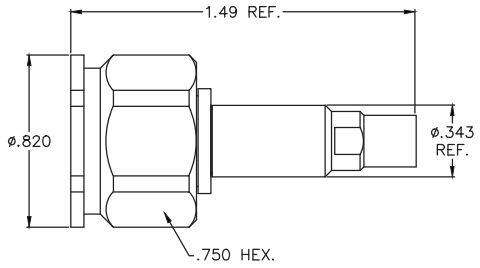
	1601/1603			1606/1608		
GHz	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level	dB/ft.	dB/m	Power(W) @ 20°C @ Sea Level
0.5	0.08	0.27	707	0.09	0.30	632
1	0.12	0.39	500	0.13	0.43	446
2	0.17	0.56	350	0.19	0.62	313
4	0.25	0.83	240	0.28	0.92	214
6	0.32	1.05	190	0.35	1.16	170
8	0.38	1.25	160	0.42	1.37	143
10	0.43	1.42	150	0.47	1.56	134
12	0.48	1.59	140	0.53	1.74	125
14	0.53	1.75	130	0.58	1.91	116
16	0.58	1.90	120	0.63	2.07	107
18	0.62	2.04	110	0.68	2.22	98
20	0.64	2.11	100	0.72	2.36	89
22	0.68	2.25	90	0.77	2.52	80
24	0.73	2.38	80	0.81	2.66	71
26	0.77	2.51	70	0.86	2.81	63
28	0.80	2.64	60	0.90	2.95	54
30	0.84	2.76	50	0.94	3.09	45
32	0.88	2.89	40	0.99	3.23	36



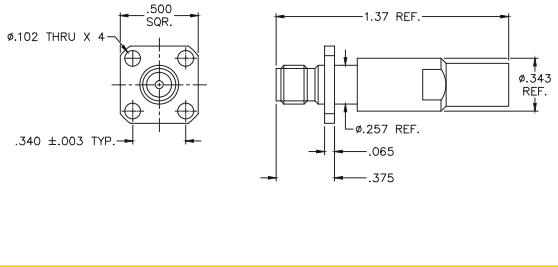




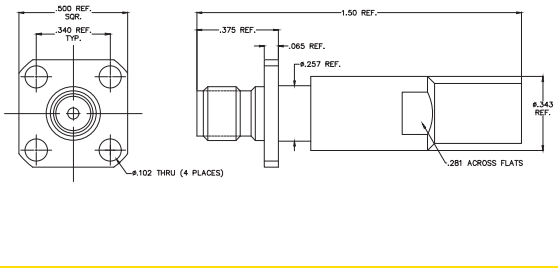
CONNECTORS FOR 160 SERIES



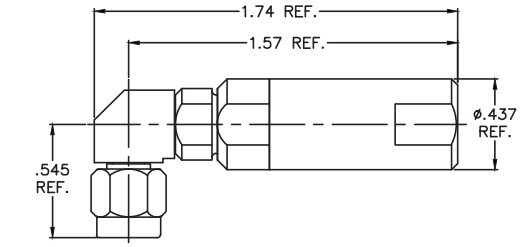
N-TYPE MALE (NPS-1601)



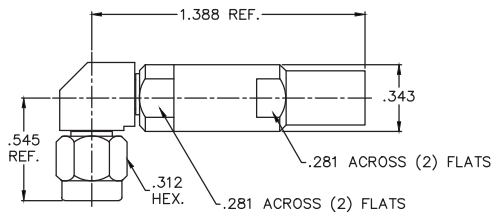
SMA FEMALE, 4-HOLE FLANGE MOUNT (SJP4-1601)



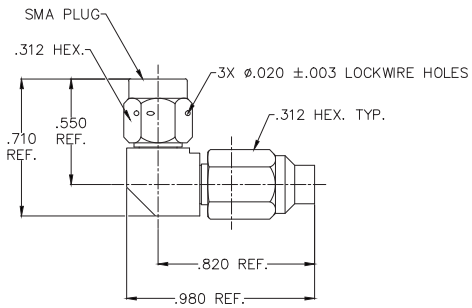
SMA FEMALE, 4-HOLE FLANGE MOUNT (SJP4-1603)



SMA MALE RIGHT ANGLE FOR EXTERNAL ARMOR SPRC-1601A)



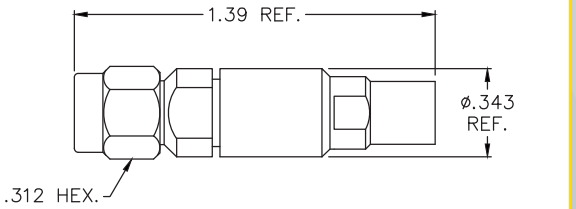
SMA MALE RIGHT ANGLE (SPRC-1603)



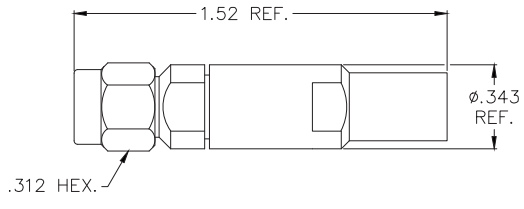
SMA MALE RIGHT ANGLE W/LOCK WIRE HOLES (SPRCW-1601)

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

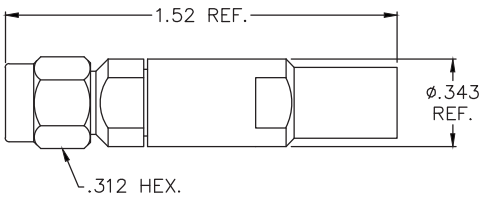
CONNECTORS FOR 160 SERIES



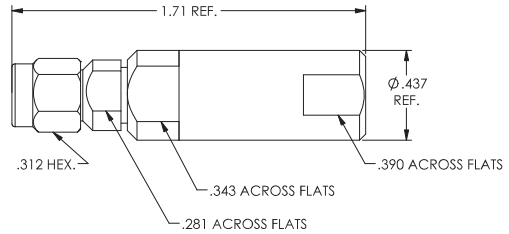
SMA MALE (SPS-1601)



SMA MALE FOR LC JACKET (SPS-1601)



SMA MALE (SPS-1603)



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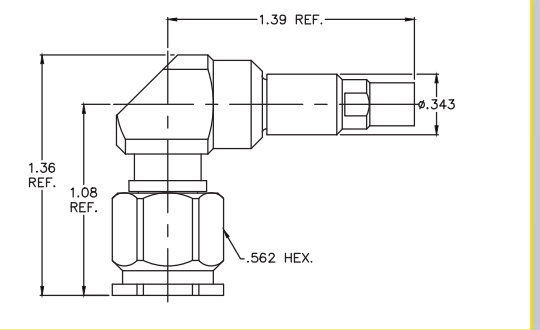
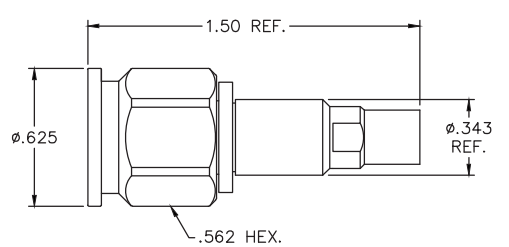


TNC MALE RIGHT ANGLE (TPR-1601)



TNC MALE (TPS-1601)

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