



125 Series Operating Up to 70 GHz



Center Conductor
Silver Plated
Copper

Dielectric
EPTFE

Foil
Silver Plated
Copper

Braid
Silver Plated
Copper

Outer Jacket
FEP
(2.46mm 0.097")

1251

Electrical Characteristics

Impedance	50 +/- 2Ω
Cut Off Frequency (cable only, max)	70 GHz
Capacitance	27 pF/ft.
Velocity of Propagation	75%
Time Delay	1.35 ns/ft.
Shielding Effectiveness up to 18GHz	>90 dB
Power Handling	See Chart

Mechanical Characteristics:

Weight	0.19 oz/ft (18g/m)
Minimum Bend Radius inches (mm)	.200" (5mm)

Environmental Characteristics:

Operating Temperature Range ¹	-65°C to +165°C
RoHS (2002/95/EC)	Available on request

¹+200°C available on request

VSWR for assemblies with two straight connectors 1.35 : 1 to 40 GHz



125 Series (Continued)

Attenuation (max)

GHz	dB/ft.	dB/m	1251
			Power(W) @ 20°C @ Sea Level
0.04	0.12	0.41	270
1	0.20	0.65	220
2	0.28	0.93	200
4	0.41	1.35	120
6	0.51	1.69	85
8	0.60	1.98	75
10	0.68	2.24	70
12	0.76	2.49	65
14	0.83	2.71	60
16	0.89	2.93	55
18	0.96	3.14	50
20	1.02	3.34	45
22	1.08	3.53	43
24	1.14	3.72	42
26	1.19	3.90	40
28	1.25	4.08	39
30	1.30	4.26	38
32	1.35	4.43	37
34	1.40	4.59	36
36	1.45	4.76	35
38	1.50	4.92	32
40	1.55	5.08	30
42	1.59	5.23	29
44	1.64	5.38	28
46	1.69	5.53	27
48	1.73	5.68	26
50	1.78	5.83	25
52	1.82	5.98	25
54	1.87	6.12	25
56	1.91	6.26	23
58	1.95	6.36	23
60	2.00	6.52	22
62	2.04	6.65	22
64	2.08	6.78	22
65	2.10	6.84	21
68	2.12	6.95	20
70	2.14	7.02	19

