

CRG047UMDS

Semi-Rigid,
Low-Loss RF Coaxial Cable
Ver: S-A01



Structure & Dimension

	Structure	Dimension (mm)	Material
1	Inner Conductor	0.30	Silver Plated Copper Clad Steel
2	Insulating	0.87	LD-PTFE
3	Outer Conductor	1.15	Seamless Annealed Copper Tube Plating Ternary Alloy

Specification

1	Operating Frequency(GHz)	40
2	Impedance(Ohms)	50
3	Velocity of Propagation	76%
4	Voltage Withstand (Vrms@1min)	100
5	Shielding Effectiveness(dB)	≥165
6	Weight(g/m)	4
7	Single Bend Radius(mm)	5.80
8	Temperature Range(°C)	-55~+125

Attenuation (Typical@25°C & VSWR=1.0) VS. Frequency VS. Power (VSWR=1.0; 40°C; Sea Level)

Frequency (MHz)	1000	2000	3000	6000	8000	10000	12400	18000	26500	40000
Attenuation (dB/m)	1.136	1.624	2.005	2.886	3.364	3.792	4.259	5.220	6.469	8.163
Average Power (KW)	0.147	0.103	0.083	0.058	0.050	0.044	0.039	0.032	0.026	0.020

$K1=3.5016000$ $K2=0.0029000$

Calculate Attenuation = $K1*\sqrt{FMHz}+K2*FMHz$



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