

FSB-500

P/N 9814

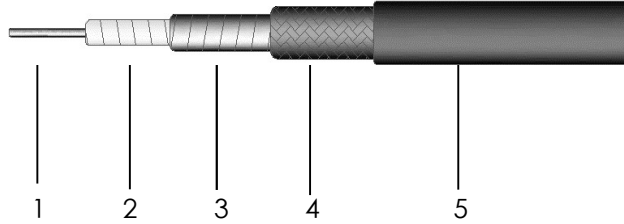


Ultra Low Loss Phase Stable Coax Cable

Ver C Release Date May, 2018

Features&Benefits

- 83%Vp PTFE Tape+SPC Foil
- Ultra Low Loss, Excellent Temp Phase Stable
- Equivalent to UFB205A
- Replace to CNX3449, HF190,IW1801



Construction Specification

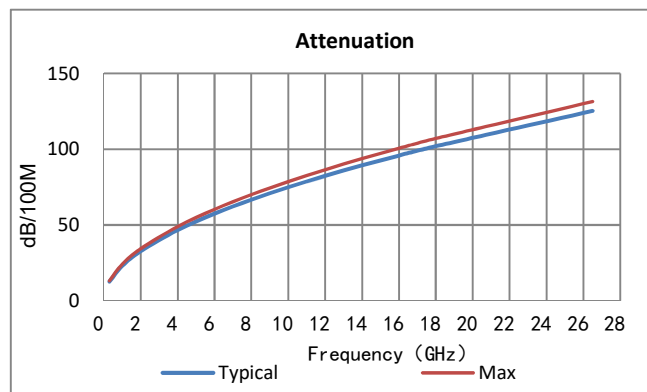
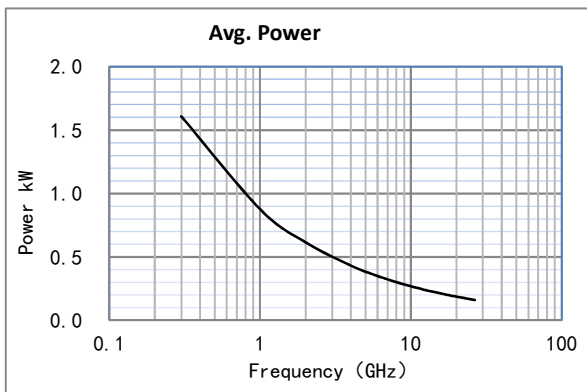
	Description	Size (mm)	Tol.	Materials
1	Center conductor	1.45	±0.03	Silver Plated Copper
2	Dielectric	4.00	±0.05	LD PTFE
3	Outer conductor	4.20	±0.05	Silver Plated Copper Foil
4	Outer shield	4.75	±0.10	Silver Plated Copper
5	Jacket	5.20	±0.15	Gray FEP

Mechanical&Environmental Specifications

Bend Radius:installation (mm)	20
Bend Radius:repeated (mm)	50
Weight (g/m)	50
Temp, Operating&Installation (°C)	-55 ~ 165
Temp, Storage (°C)	-65 ~ 165

Electrical Specifications

Operation Frequency (GHz)	26.5
Impedance (Ohms)	50
Velocity of Propagation	83%
Shielding Effectiveness (dB)	90
Voltage Withstand (V,DC)	1500



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

Frequency MHz	300	1000	2000	4000	6000	8000	10000	12000	14000	16000	18000	26500
dB/100 m	12.5	23.0	32.7	46.6	57.4	66.6	74.8	82.3	89.3	95.8	101.9	125.2
Avg.Power kW	1.608	0.875	0.615	0.431	0.350	0.302	0.268	0.244	0.225	0.210	0.197	0.160
	K1= 0.7156867					K2= 0.0003280						

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

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