

RFSA810

Ultra Low Loss Phase Stable Coax Cable

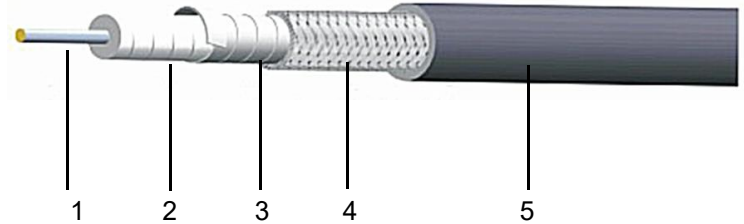
Ver A1 Release Date Match, 2018



P/N: 10081

Features&Benefits

- 83%Vp PTFE Tape+SPC Foil
- Ultra-low loss, excellent temperature phase
- Equivalent to UFB311A
- Replace to CNX3450,HF290,IW2801



Construction Specification

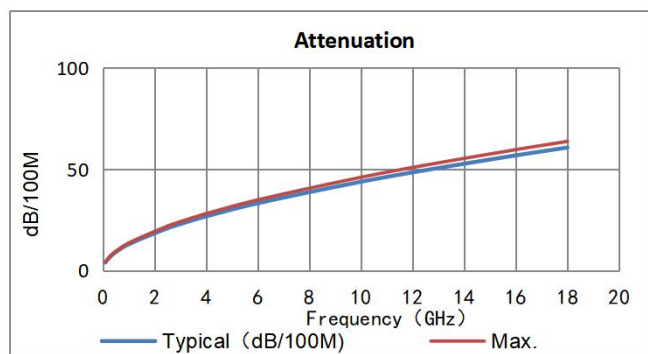
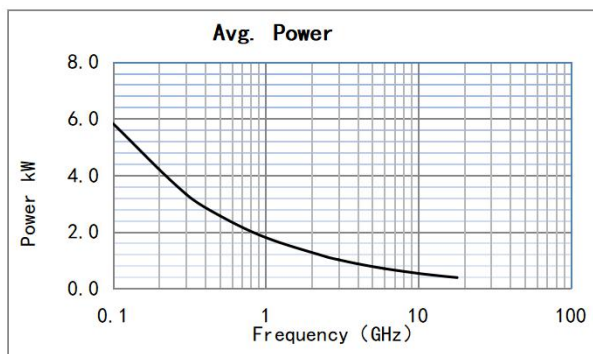
	Description	Size (mm)	Tol.	Materials
1	Center conductor	2.41	±0.02	Silver Plated Copper
2	Dielectric	6.55	±0.08	LD PTFE
3	Outer conductor	6.88	±0.08	Silver Plated Copper Foil
4	Outer shield	7.40	±0.08	Silver Plated Copper
5	Jacket	8.10	±0.15	FEP Gray or customized

Mechanical&Environmental Specifications

Bend Radius:installation (mm)	40
Bend Radius:repeated (mm)	80
Weight (g/m)	145
Temp, Operating&Installation (°C)	-55~165
Temp, Storage (°C)	18

Electrical Specifications

Operation Frequency (GHz)	18	Bending phase	±5°@18GHz
Impedance (Ohms)	50	Temp. phase	600PPM (-55~85)
Velocity of Propagation	84%	Mech. phase	±0.1 @18GHz
Shielding Effectiveness (dB)	≥90		
Voltage Withstand (V,DC)	3600		



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

Frequency MHz	100	300	500	1000	2500	3000	4000	6000	10000	12400	16000	18000
dB/100 m	4.0	7.0	9.1	13.0	20.9	23.0	26.8	33.2	43.8	49.4	56.9	60.7
Avg.Power kW	5.817	3.333	2.569	1.799	1.117	1.015	0.872	0.702	0.532	0.473	0.410	0.384
K1=	0.3969816					K2=	0.0004150					

Calculate Attenuation= $K1 \cdot \sqrt{F} + K2 \cdot F$

Maximum attenuation is 10% higher.

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