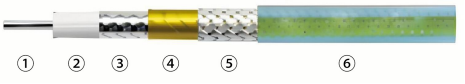
High-Power Low Loss Phase Stable Coaxial Cable, RCB460
DC-31GHz, ø4.6mm, P-Grade, High Power



01

Dimensions(mm) Tolerance±1%



02

Electrical & Environmental

Frequency Range	DC-31GHz
Impedance	50 Ohms
CW power@25℃	95W @31GHz, 325W @3GHz
Attenuation@Length 1m	2.12 dB Max @31GHz
Capacitance	88 pF/m
VOP	76%
SE	100dB Min
Voltage	1500V@DC
Temp. Phase	1500PPM Max
OT	-55 ~ +200°C

03

Product Information

Product Number	RCB460, P-Grade
Product Type	High-Power Low Loss Phase Stable Coaxial Cable
Bend Radius (Inst.)	23.00mm
Bend Radius (Rep.)	46.00mm
Net Weight	About 50.0g per meter

04

RFTOP P/N and Packaging

RFTOP P/N	Length	Packaging
RCB460-10M	10 m	Sealed bag
RCB460-300M	300 m	Wooden Reel

RCB460 Structure Characteristics		
Structure	**Material**	**Diameter**
1.Center Conductor	Single-core Silver-plated Copper	1.02 mm
2.Dielectric	LD-PTFE	3.07 mm
3.Inner shield	Silver-plated Copper Tape Braiding	3.27 mm
4.Interlayer	Aluminum Foil Longitudinal Wrapping	3.41 mm
5.Outer Shield	Silver-plated Copper Wire Braiding	3.92 mm
6.Jacket	Light Blue FEP	4.60 mm
Frequency(MHz)	**ATTEN(dB/100M)**	**Avg Power(W)**
300	19.22	1047
500	24.88	809
1000	35.36	569
2450	55.87	360
3000	61.99	325
4000	71.90	280
6000	88.71	227
8000	103.07	195
10000	115.85	174
12400	129.76	155
18000	158.14	127
26500	194.63	103
dB/100M=**K1**× sqrt(FMHz) + **K2**× FMHz		
K1=1.0994853 , **K2**=0.0005906 , **P3**=20129		
RCB460 Replacement Model		
Times	SFT142	