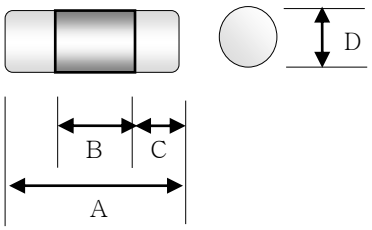
Product Specification / 23.2nd	Part
RF Power Rod Resistors	CQR20 ROD Series Non Inductive CVD Metal Thin Film

* Specifications, appearance, performance, functions, etc, may be changed without notice

1. This type is designed to fulfill multiband RF splitter

2. Dimensional specifications are detailed per the following draft



Part Dimensional (Unit : mm)

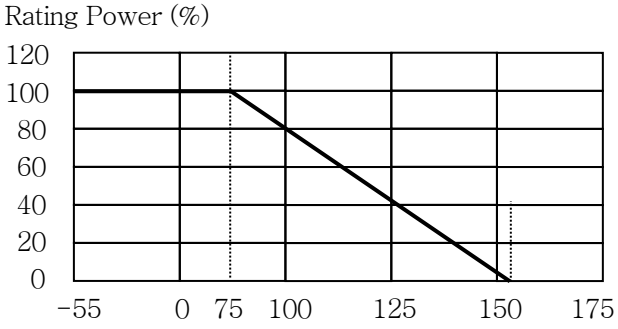
Ordering Information

Part No.	RF Power	Frequency	Resistance	Values	Qty./ Reel
CQR20A-101AG	10W	DC to 12GHz	100 ohm	100ohm to 10Kohm	1,000 pcs
CQR20B-101AG	20W	DC to 8.0GHz	100 ohm	100ohm to 10Kohm	1,000 pcs

Part Designations (Unit : mm)

Part	A	B	C	D
CQR20A	2.70	1.30	0.70	1.30
CQR20B	5,20	2.20	1.50	1.70

3. Rating Power with Heat Sink



4. General Electrical Specifications

Items	Specification		Condition
Part	CQR20A	CQR20B	Non Inductive
Rating RF power for dividing	10W	20W	200W(Vin)Max
Frequency	DC to 12GHz	DC to 8.0GHz	
Resistance Values	100, 150, 200, 250, 300, 350, 400, 500, 600, 800ohm		
CVD	Metal Thin Film		
VSWR(Max)	1.20 : 1		
Temp. Coefficient of Resistance.	±100ppm/℃		-55 to +155℃
Tolerance of Resistance	±1%, 3%, 5%		

Note: Other resistance values and tolerances available upon request

5. Electrical and mechanical Specifications

Items	Specifications	Test Conditions
Operation Temp. Range	-55 to +155 ℃	
Storage Temp. Range	-55 to +155 ℃	
Withstanding Voltage	1,500 Volt	60 seconds.
Load Life	±(1.0% +0.05 ohm)	25℃ 90min ON, 30min OFF, 1000hours.
Humidity	±(1.0% +0.05 ohm)	40℃ 90-95% RH, DC 0.1W, 1000hours.
Temperature Cycle	±(0.25% +0.05 ohm)	-55℃ 30min., +155℃ 30min., 5cycles.
Soldering Heat	±(0.25% +0.05 ohm)	350±5℃, 3seconds,
Solderability	Over 3/4 of surface	230±5℃, 3seconds.
Insulation Resistance	Over 1000 Mohm	Between terminals and resistor body.
Vibration	±(0.25% +0.05 ohm)	

6. Country of Origin

The resistors are produced at KOREA main factory of Cqtel Co.