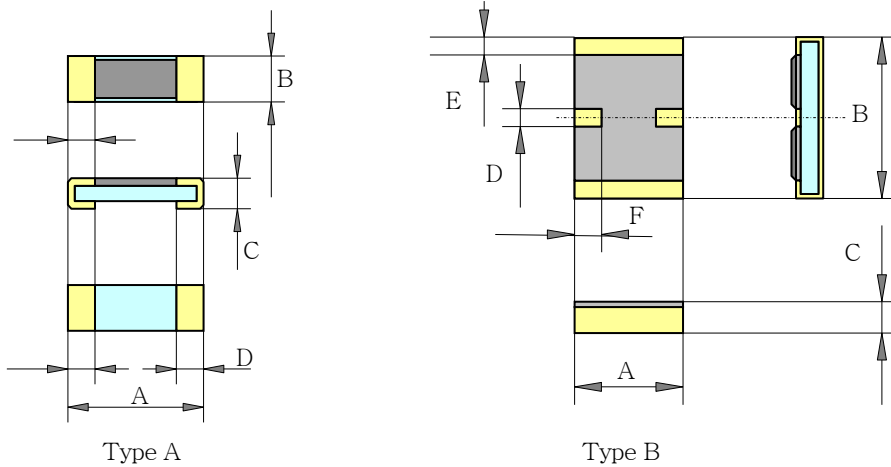


Product Specification	Part
RF Power Chip Resistors	CQR Chip Series

1. This type is designed to fulfill multiband RF splitter
2. Dimensional specifications are detailed per the following draft



Part Dimensional (Unit : mm)

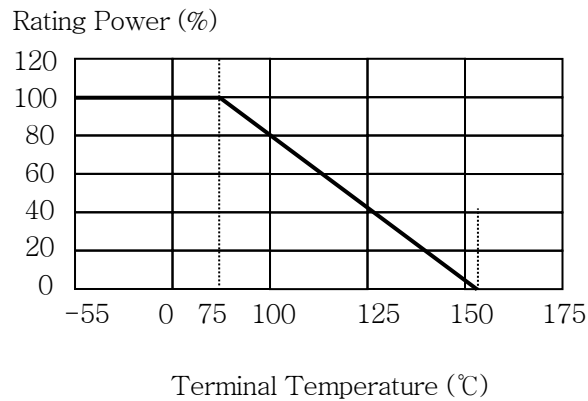
Ordering Information

RF Power	Part No.	Frequency	Resistance	Values	Type
20W	CQR20S-101NI	DC to 3GHz	100 ohm	100ohm to 1Kohm	A
20W	CQR20SA-101NI	DC to 3GHz	100 ohm	100ohm to 1Kohm	A
3W	CQR20SB-101NI	DC to 3GHz	100 ohm	100ohm to 10Kohm	A
2W	CQR20SC-101NI	DC to 3GHz	100 ohm	100ohm to 10Kohm	A
0.5W	CQR20SD-101NI	DC to 6GHz	100 ohm	100ohm to 10Kohm	A
0.25W	CQR20SE-101NI	DC to 12GHz	100 ohm	100ohm to 10Kohm	A
0.2W	CQR20SF-101NI	DC to 18GHz	100 ohm	100ohm to 10Kohm	A
0.15W	CQR20SG-101NI	DC to 28GHz	100 ohm	100ohm to 10Kohm	A
0.05W	CQR20SH-101NI	DC to 40GHz	100 ohm	100ohm to 10Kohm	A
100W	CQR100S-101NI	DC to 3GHz	100 ohm	100ohm to 1Kohm	B
250W	CQR250S-101NI	DC to 3GHz	100 ohm	100ohm to 1Kohm	B

Part Designations (Unit : mm)

Part	A	B	C	D	E	F
CQR20S	5.00	2.00	0.80	0.80		
CQR20SA	7.00	2.00	0.80	1.00		
CQR20SB	6.30	3.00	0.55	0.60		
CQR20SC	5.10	2.40	0.55	0.55		
CQR20SD	3.10	1.50	0.55	0.45		
CQR20SE	2.00	1.20	0.50	0.35		
CQR20SF	1.50	0.80	0.30	0.25		
CQR20SG	1.00	0.50	0.30	0.25		
CQR20SH	0.60	0.30	0.12	0.15		
CQR100S	5.80	8.80	1.00	1.00	0.30	1.50
CQR250S	9.50	9.50	1.00	4.10	1.20	1.20

3. Rating Power with Heat Sink



4. General Electrical Specifications

Items	Specification	Condition
Part	CQR Chip Series	
Rating RF Power	0.05W to 250W	
Resistance Values	100ohm to 10Kohm	
Frequency	DC to 40GHz	
VSWR(Max)	1.25 : 1	
Temp. Coefficient of Resistance.	±200ppm/°C	-55 to +155°C
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 °C	
Storage Temp. Range	-55 to + 155 °C	
Withstanding Voltage	1,500 Volt	60 seconds.
Load Life	$\pm(1.0\% + 0.05 \text{ ohm})$	25°C 90min ON, 30min OFF, 1000hours.
Humidity	$\pm(1.0\% + 0.05 \text{ ohm})$	40°C 90-95% RH, DC 0.1W, 1000hours.
Temperature Cycle	$\pm(0.25\% + 0.05 \text{ ohm})$	-55°C 30min., + 155°C 30min., 5cycles.
Soldering Heat	$\pm(0.25\% + 0.05 \text{ ohm})$	350±5°C, 3seconds,
Solderability	Over 3/4 of surface	230±5°C, 3seconds.
Insulation Resistance	Over 1000 Mohm	Between terminals and resistor body.
Vibration	$\pm(0.25\% + 0.05 \text{ ohm})$	

6. Country of Origin

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

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