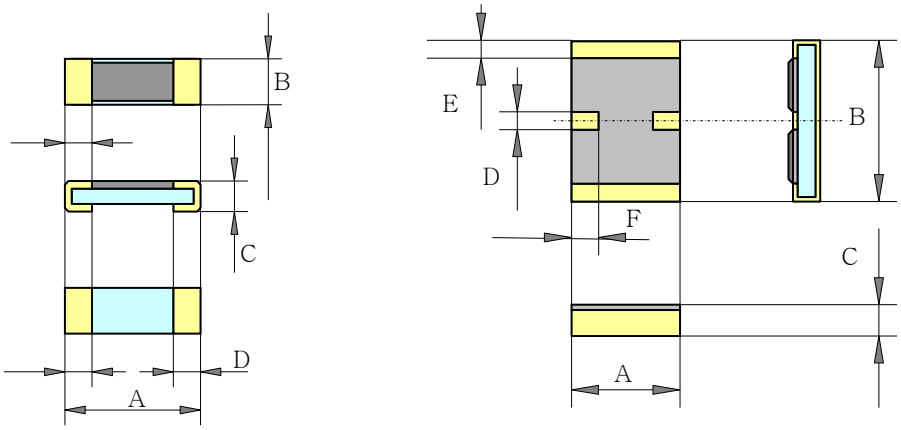
Product Specification / 23.2nd	Part
RF Power Chip Resistors	CQR Chip Series

* 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



Type A Type B

Part Dimensional (Unit : mm)

Ordering Information

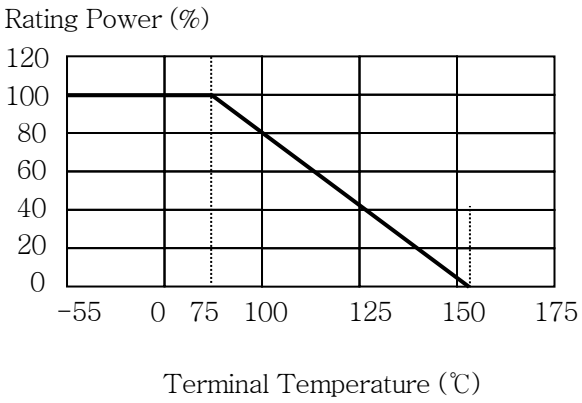
Part No.	RF Power	Frequency	Resistance	Values	Type
CQR20S-101NI	20W	DC to 3.0GHz	100 ohm	100ohm to 1Kohm	A
CQR20SA-101NI	20W	DC to 3.0GHz	100 ohm	100ohm to 1Kohm	A
CQR20SB-101NI7W	2.5W	DC to 6.0GHz	100 ohm	100ohm to 10Kohm	A
CQR20SC-101NI7W	1.5W	DC to 6.0GHz	100 ohm	100ohm to 10Kohm	A
CQR20SC-101NI	0.8W	DC to 4.0GHz	100 ohm	100ohm to 10Kohm	A
CQR20SD-101NI7W	0.5W	DC to 6.0GHz	100 ohm	100ohm to 10Kohm	A
CQR20SD-101NI	0.25W	DC to 4.0GHz	100 ohm	100ohm to 10Kohm	A
CQR20SE-101NI	0.125W	DC to 18GHz	100 ohm	100ohm to 10Kohm	A
CQR20SF-101NI	0.1W	DC to 28GHz	100 ohm	100ohm to 10Kohm	A
CQR20SG-101NI	0.06W	DC to 40GHz	100 ohm	100ohm to 10Kohm	A
CQR20SH-101NI	0.05W	DC to 45GHz	100 ohm	100ohm to 10Kohm	A

Part No.	RF Power	Frequency	Resistance	Values	Type
CQR100S-101NI	100W	DC to 3.0GHz	100 ohm	100ohm to 1Kohm	B
CQR250S-101NI	250W	DC to 3.0GHz	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 for dividing	0.05W to 250W	
Resistance Values	100ohm to 10Kohm	
Frequency	DC to 45GHz	
VSWR(Max)	1.20 : 1	
Temp. Coefficient of Resistance.	±200ppm/℃	-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.