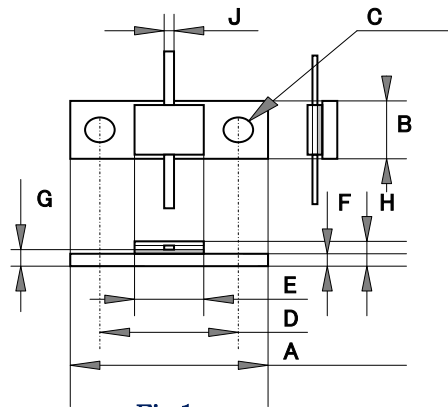


Product Specification	Part
RF Power Flange Resistor	CQR Flange Series

- CQR Flange Resistors
This type is designed to fulfill RF splitter.
- Dimensional specifications are detailed per the following draft of Fig.1

RF Power : 20W to 250W
Resistance : 100 ohm
Frequency : DC to 3GHz



2-1. Part Designations (Unit : mm)

Part	A	B	C	D	E	F	G	H	J
CQR20F	12.60	5.20	2.80	7.20	3.10	1.50	2.20	3.40	0.80
CQR100F	20.30	5.70	3.20	14.20	7.20	1.50	2.20	3.40	0.80
CQR150F	22.30	6.30	3.20	15.80	8.50	1.50	2.50	2.70	1.00
CQR250F	25.10	9.60	3.40	18.40	10.00	3.00	4.10	4.70	3.00

2-2. Ordering Information

Part No.	RF Power	Frequency	TCR	Resistance	Tolerance	Package
CQR20F-101NI	20W	DC to 2.5GHz	C(50ppm/C)	100 ohm	+/-1%, +/-3%	50
CQR100F-101NI	100W	DC to 3.0GHz	C(50ppm/C)	100 ohm	+/-1%, +/-3%	50
CQR150F-101NI	150W	DC to 2.5GHz	C(50ppm/C)	100 ohm	+/-1%, +/-3%	50
CQR250F-101NI	250W	DC to 2.5GHz	C(50ppm/C)	100 ohm	+/-1%, +/-3%	50

3. Note

Additional Process Code Terminal conductor, solder plated Sn/ Ag.

4. Rating.

4-1. RF Power Rating (Fig.2)

Resistors have power rating based on full load operation at terminals temperature from - 55C to + 155C. Operating power shall be derated as figure 2 in operating at excess of + 155C of terminal temperature.

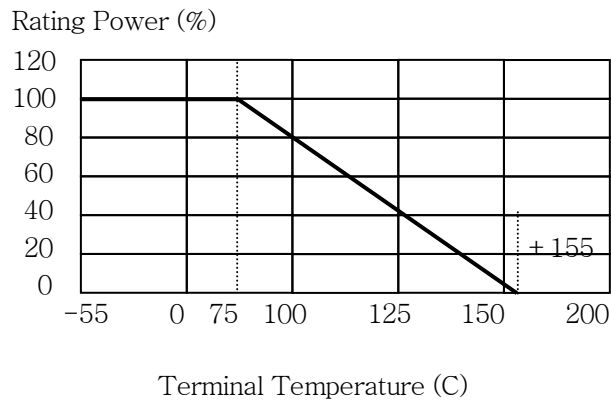


Fig.2

4-2. General Electrical Specifications

Items	Specification	Condition
Part	CQR Flange Series	
Rating RF power	20W to 250W	4-1
Resistance Values	100 ohm	Standard
Frequency	DC to 3GHz	
VSWR(Max)	1.25 : 1	
Temp. Coefficient of Resistance.	+/-200ppm/C	-55C to + 155C
Tolerance of Resistance	+/-3%	Standard
Equivalent Parallel Capacitance	2.5 pF Max.	

Note: Other resistance values and tolerances available upon request.

5. Electrical and mechanical Specifications

Items	Specifications	Test Conditions
Operation Temp. Range	-55- + 155 C	
Storage Temp. Range	-55 - + 155 C	
Withstanding Voltage	1,500 Volt	60 seconds.
Load Life	+ /-(1.0 %+ 0.05 ohm)	25C, 90min.ON, 30min.OFF, 1000hours.
Humidity	+ /- (1.0 %+ 0.05 ohm)	40C, 90-95%RH, DC0.1W, 1000hours.
Temperature Cycle	+ /- (0.25 %+ 0.05 ohm)	-55C, 30 min., + 155C 30min., 5cycles.
Soldering Heat	+ /- (0.25 %+ 0.05 ohm)	350+ /-5C, 3seconds,
Solderability	Over 3/4 of surface	230+ /-5C, 3seconds.
Insulation Resistance	Over 1000 M ohm	Between terminals and resistor body.
Vibration	+ /- (0.25 %+ 0.05 ohm)	

6. Quality Assurance

Cqtel shall be assure to the CiTEL customers of the resistors quality. Receiving fault report from the customer, analyzing the cause of fault and reporting of QA to the customer shall be obligation of Cqtel, because brand of the resistor and CQR Flange series is right of CiTEL.

7. Country of Origin

The resistors are produced at main factory of CiTEL Co., Ltd.