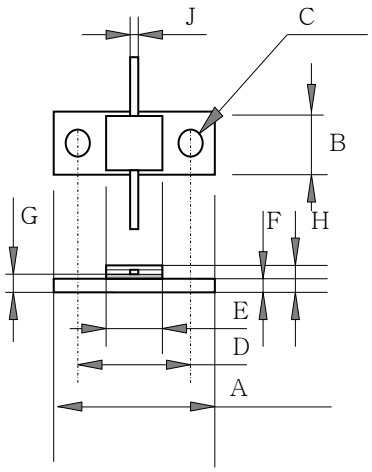
Product Specification / 23.2nd	Part
RF Power Flange Resistor	CQR Flange Series

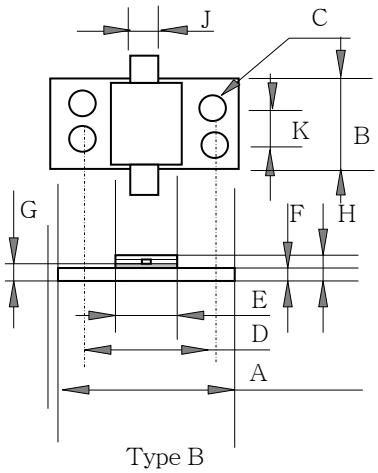
* Specifications, appearance, performance, functions, etc, may be changed without notice

1. This type is designed to RF Device

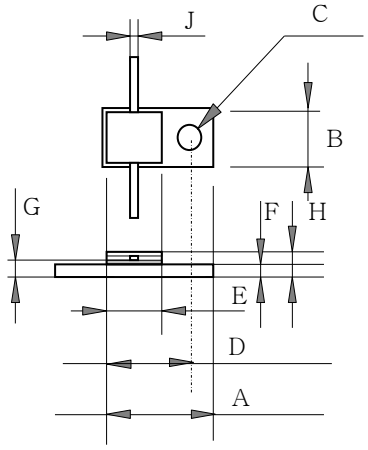
2. Dimensional specifications are detailed per the following draft



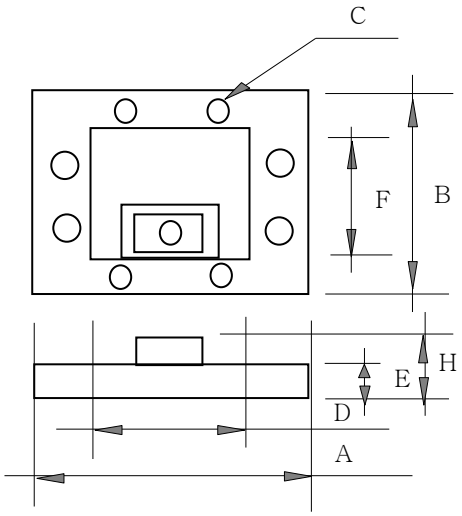
Type A



Type B



Type C



Type D

Part Dimensional (Unit : mm)

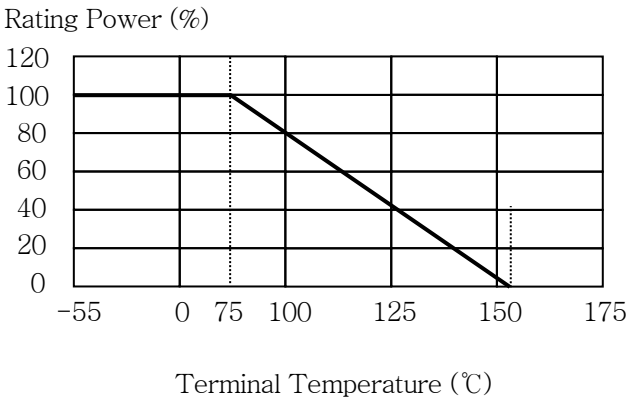
Ordering Information

Part No.	RF Power	Frequency	Resistance	Values	Type
CQR10F-101NI	10W	DC to 3.0GHz	100 ohm	50ohm to 1Kohm	C
CQR20F-101NI	20W	DC to 3.0GHz	100 ohm	50ohm to 1Kohm	A
CQR100F-101NI	100W	DC to 3.0GHz	100 ohm	50ohm to 1Kohm	A
CQR150F-101NI	150W	DC to 3.0GHz	100 ohm	50ohm to 1Kohm	A
CQR150FA-101NI	150W	DC to 3.0GHz	100 ohm	50ohm to 1Kohm	A
CQR250F-101NI	250W	DC to 2.0GHz	100 ohm	50ohm , 100ohm	A
CQR500F-101LUG	500W	DC to 1.0Ghz	100 ohm	50ohm to 1Kohm	D
CQR600F-101BE	800W	DC to 1.0Ghz	100 ohm	100ohm	B

Designations (Unit : mm)

Part	A	B	C	D	E	F	G	H	J	K
CQR10F	7.60	5.08	2.95	5.08	2.54	1.50	2.50	3.30	1.00	
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	3.40	1.00	
CQR150FA	22.30	9.50	4,10	14.20	6.30	1.50	2.50	3.40	1.00	
CQR250F	25.10	9.60	3.40	18.40	10.0	3.00	4.10	4.90	3.00	
CQR500F	60.00	45.00	4.50	37.00	8.00	37.00	4.80	16.00		
CQR800F	48.30	26.40	4.20	40.00	25.40	3.20	4.80	6.10	6.40	12.70

3. Rating Power with Heat Sink



4. General Electrical Specifications

Items	Specification	Condition
Part	CQR Flange Series	
Rating RF power for dividing	10W to 800W	
Resistance Values	50ohm to 1Kohm	
Frequency	DC to 3.0GHz	
VSWR(Max)	1.25 : 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.