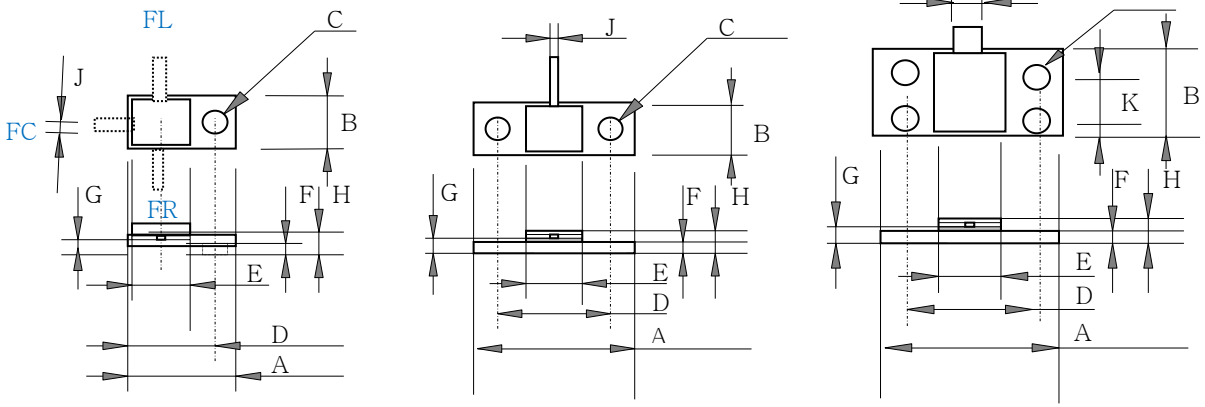
Product Specification / 23.2nd	Part
RF Power Flange Terminations	CQT Flange Series

* 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

Part Dimensional (Unit : mm)

Ordering Information

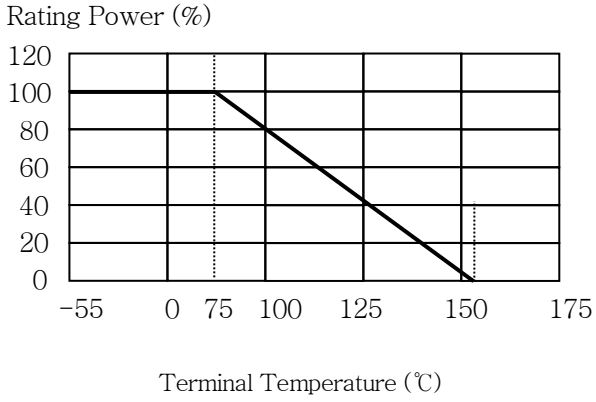
Part No.	RF Power	Frequency	Resistance	Values	Type
CQT10FC-500NI	10W	DC to 3.0Ghz	50 ohm	50ohm to 250ohm	A
CQT10FC-500AL	10W	DC to 4.0Ghz	50 ohm	50ohm	A
CQT10FC-500BE	10W	DC to 18Ghz	50 ohm	50ohm	A
CQT20F-500NI	20W	DC to 3.0GHz	50 ohm	50ohm to 250ohm	B
CQT20F-500BE	20W	DC to 8.0GHz	50 ohm	50ohm	B
CQT50FC-500NI	50W	DC to 4.0GHz	50 ohm	50ohm to 250ohm	A
CQT50FC-500BE	50W	DC to 6.0GHz	50 ohm	50ohm	A
CQT100F-500NI	100W	DC to 3.0GHz	50 ohm	50ohm to 250ohm	B
CQT100F-500BE	100W	DC to 6.0GHz	50 ohm	50ohm to 250ohm	B
CQT100FC-500NI	100W	DC to 3.0GHz	50 ohm	50ohm to 250ohm	A
CQT100FC-500BE	100W	DC to 6.0GHz	50 ohm	50ohm	A
CQT150F-500NI	150W	DC to 2.5GHz	50 ohm	50ohm to 250ohm	B
CQT150FA-500NI	150W	DC to 2.5GHz	50 ohm	50ohm to 250ohm	B

Part No.	RF Power	Frequency	Resistance	Values	Type
CQT200FC-500NI	200W	DC to 2.5GHz	50 ohm	50ohm to 250ohm	A
CQT200F-500BE	200W	DC to 3.0GHz	50 ohm	50ohm	B
CQT200FA-500BE	200W	DC to 10GHz	50 ohm	50ohm	B
CQT250F-500NI	250W	DC to 2.5GHz	50 ohm	50ohm	B
CQT250FA-500BE	250W	DC to 10GHz	50 ohm	50ohm	B
CQT300F-500NI	300W	DC to 2.0GHz	50 ohm	50ohm	B
CQT300FA-500BE	300W	DC to 10GHz	50 ohm	50ohm	B
CQT400F-500BE	400W	DC to 2.0GHz	50 ohm	50ohm	B
CQT500F-500BE	500W	DC to 2.0GHz	50 ohm	50ohm	B
CQT800F-500BE	800W	DC to 1.0GHz	50 ohm	50ohm	C

Part Designations (Unit : mm)

Part	A	B	C	D	E	F	G	H	J	K
CQT10FC	7.60	5.08	2.90	5.08	2.54	1.50	2.50	3.30	1.00	
CQT20F	12.70	5.10	2.90	7.60	2.50	1.50	2.50	3.30	1.00	
CQT50FC	13.00	6.30	2.90	9.90	6.10	1.50	2.50	3.40	0.80	
CQT100F	20.30	5.70	3.20	14.60	8.90	1.50	2.50	3.40	1.00	
CQT100FC	13.08	6.30	2.90	9.90	6.10	1.50	2.50	3.40	0.80	
CQT150F	20.30	5.70	3.20	14.60	8.90	1.50	2.50	3.40	1.00	
CQT150FA	22.30	6.30	3.20	14.20	8.50	1.50	2.50	3.20	1.00	
CQT200FC	13.08	9.50	3.20	9.90	6.10	1.50	2.50	3.40	0.80	
CQT200F	24.80	9.50	3.20	18.40	10.00	3.00	4.50	5.50	1.40	
CQT200FA	32.00	12.70	4.00	22.00	12.70	3.20	5.30	6.00	2.40	
CQT250F	25.00	9.50	3.20	18.40	9.60	3.00	4.10	4.50	3.00	
CQT250FA	27.00	10.00	3.20	21.00	12.70	2.60	4.10	4.50	2.40	
CQT300F	27.00	10.00	3.20	21.00	12.70	2.60	4.10	4.50	2.40	
CQT300FA	32.00	12.70	4.00	22.00	12.70	3.20	5.30	6.00	2.40	
CQT400F	32.00	12.70	4.00	22.00	12.70	3.20	5.30	6.00	2.40	
CQT500F	32.00	12.70	4.00	22.00	12.70	3.20	5.30	6.00	2.40	
CQT800F	48.30	26.40	4.20	40.00	25.40	3.20	4.80	6.10	2.40	12.70

3. Rating Power with Heat Sink



4. General Electrical Specifications

Items	Specification	Condition
Part	CQT Flange Series	
Rating RF Power	10W to 800W	
Resistance Values	50ohm to 250ohm	
Frequency	DC to 18GHz	
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.