

Product Specification	Part
RF Power Chip Terminations	CQT10S Chip Series

1. CQT10S Chip Terminations

This type is designed to RF Termination

2. Dimensional specifications are detailed per the following draft of Fig.1

RF Power : 1W to 20W
Resistance : 50 ohm
Frequency : DC to 6GHz

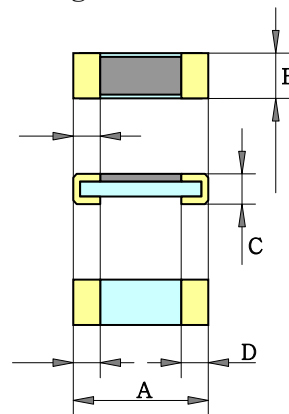


Fig 1

2-1. Part Designations (Unit : mm)

Part	A	B	C	D
CQT10SA	5.00	2.00	0.80	1.00
CQT10SB	7.00	2.00	0.80	1.00
CQT10SC	5.00	2.50	0.55	0.60
CQT10SD	3.20	1.60	0.45	0.45
CQT10SE	2.00	1.20	0.35	0.35

2-2. Ordering Information

Part No.	RF Power	Frequency	TCR	Resistance	Tolerance	Package
CQT10SA-500NI	20W	DC to 3GHz	C (50ppm/°C)	50 ohm	+/- 1 to 5%	1000 (Reel)
CQT10SB-500NI	20W	DC to 3GHz	C (50ppm/°C)	50 ohm	+/- 1 to 5%	1000 (Reel)
CQT10SC-500NI	5W	DC to 4GHz	C (50ppm/°C)	50 ohm	+/- 1 to 5%	4000 (Reel)
CQT10SD-500NI	2W	DC to 6GHz	C (50ppm/°C)	50 ohm	+/- 1 to 5%	5000 (Reel)
CQT10SE-500NI	1W	DC to 6GHz	C (50ppm/°C)	50 ohm	+/- 1 to 5%	5000 (Reel)

3. Note

Additional Process Code Terminal conductor, solder plated Ni

4. Rating.

4-1. Rating Power with Heat Sink (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.

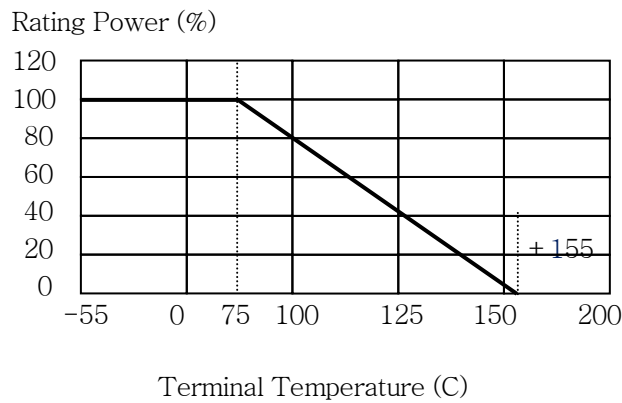


Fig.2

4-2. General Electrical Specifications

Items	Specification	Condition
Part	CQT10S Chip Series	
Rating RF power	1W to 20W	4-1
Frequency	DC to 6GHz	
Resistance Values	50 ohm	Standard
Temp. Coefficient of Resistance.	+/-200ppm/C	-55C to + 155C
Tolerance of Resistance	+/- 1%, +/- 3%, +/- 5%	Standard
Equivalent Parallel Capacitance	0.5 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, DC 0.1W, 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 CQT10S Chip series is right of CiTEL.

7. Country of Origin

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