

Product Specification	Part
RF Power ROD Terminations	CQT ROD Series

1. CQT ROD Terminations

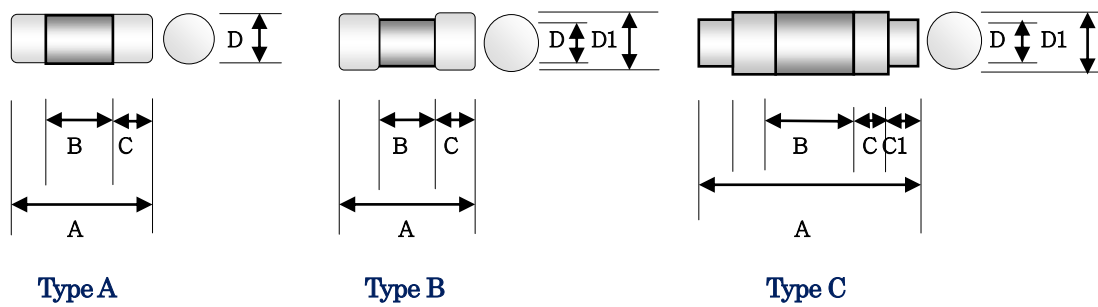
This type is designed to RF Termination

2. Dimensional specifications are detailed per the following draft of Type A B C

RF Power : 1W to 250W

Resistance : 50 ohm

Frequency : DC to 28GHz



2-1. Part Designations (Unit : mm)

Part	Type	A	B	C	C1	D	D1
CQT02R	A	2.70	1.00	0.90		1.30	
CQT02R	B	3.00	1.20	0.90		1.30	1.63
CQT05R	A	5.20	2.20	1.50		1.70	
CQT10R	A	10.00	5.60	2.20		3.00	
CQT20R	A	14.00	5.60	4.20		4.50	
CQT50R	A	23.00	10.00	6.50		7.00	
CQT50RA	C	25.3	14.50	2.20	3.20	5.20	6.20
CQT100R	A	19.00	9.00	5.00		9.50	

2-2. Ordering Information

Part No.	Type	RF Power	Frequency	TCR	Resistance	Tolerance	Condition
CQT02R-500AG	A	2W	DC to 12GHz	C(50ppm/C)	50 ohm	+/-1%. 3%	Standard
CQT02R-500UG	A	2W	DC to 28GHz	C(50ppm/C)	50 ohm	+/-1%. 3%	
CQT02R-500C	B	2W	DC to 6GHz	C(50ppm/C)	50 ohm	+/-1%. 3%	Standard
CQT05R-500AG	A	5W	DC to 12GHz	C(50ppm/C)	50 ohm	+/-1%. 3%	Standard
CQT10R-500NI	A	10W	DC to 8GHz	C(50ppm/C)	50 ohm	+/-1%. 3%	Standard
CQT20R-500AG	A	20W	DC to 10GHz	C(50ppm/C)	50 ohm	+/-1%. 3%	
CQT50R-500AG	A	50W	DC to 10GHz	C(50ppm/C)	50 ohm	+/-1%. 3%	
CQT50RA-500AG	C	50W	DC to 12GHz	C(50ppm/C)	50 ohm	+/-1%. 3%	Standard
CQT100R-500AG	A	100W	DC to 10GHz	C(50ppm/C)	50 ohm	+/-1%. 3%	

3. Rating.

3-1. Rating Power with Heat Sink (Fig.1)

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.

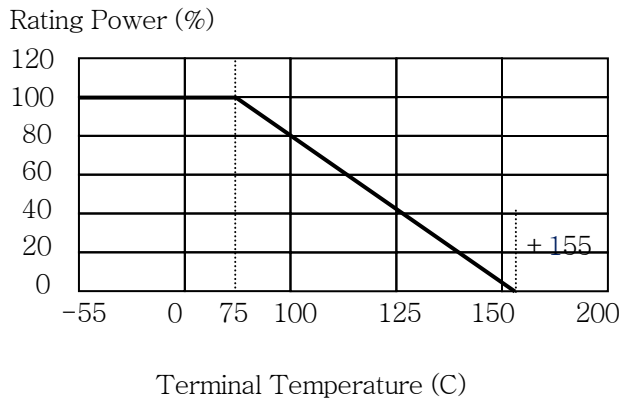


Fig.1

3-2. General Electrical Specifications

Items	Specification	Condition
Part	CQT ROD Series	
Rating RF Power	1W to 250W	3-1
Resistance Values	50 ohm	Standard
Frequency	DC to 28GHz	
VSWR(Max)	1.20 : 1	
Temp. Coefficient of Resistance.	+/-200ppm/C	-55C to + 155C
Tolerance of Resistance	+/- 1% 3%	Standard
Equivalent Parallel Capacitance	1.5 pF Max.	
Equivalent Parallel Inductance	3.5nH	

Note: Other resistance values and tolerances available upon request.

4. 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)	

5. 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 CQT ROD series is right of CiTEL.

6. Country of Origin

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