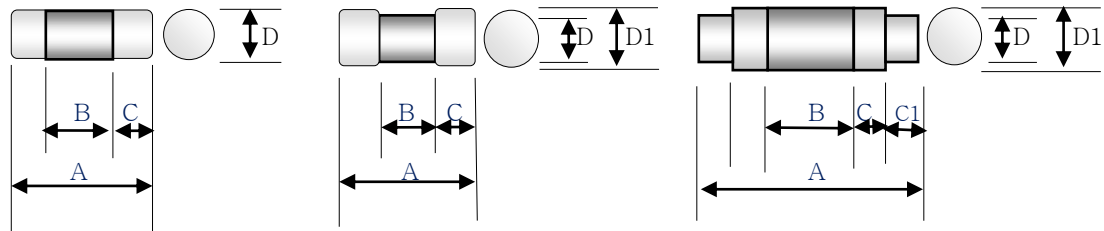


Product Specification	Part
RF Power Rod Terminations	CQT ROD Series (Non Inductive)

1. This type is designed to RF Termination
2. Dimensional specifications are detailed per the following draft



Type A

Type B

Type C

Part Dimensional (Unit : mm)

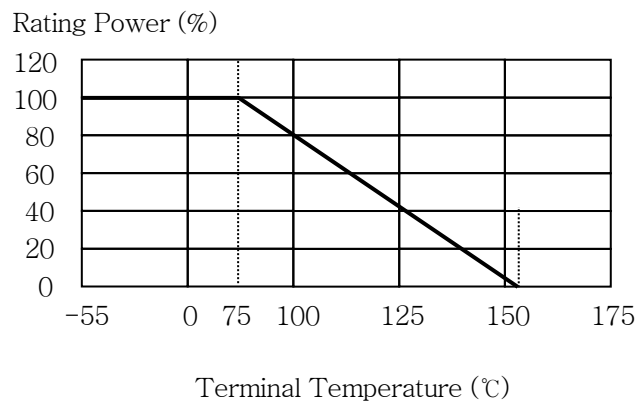
Ordering Information

RF Power	Part No.	Frequency	Resistance	Values	Type
1W	CQT02R-500UG	DC to 28GHz	50 ohm	50ohm, 75ohm	A
1W	CQT02R-500AG	DC to 18GHz	50 ohm	50ohm, 75ohm	A
1W	CQT02RA-500C	DC to 6GHz	50 ohm	50ohm, 75ohm	B
2W	CQT05R-500AG	DC to 12GHz	50 ohm	50ohm, 75ohm	A
2W	CQT05RA-500C	DC to 4GHz	50 ohm	50ohm, 75ohm	B
5W	CQT10R-500NI	DC to 8GHz	50 ohm	50ohm, 75ohm	A
5W	CQT10RB-500NI	DC to 8GHz	50 ohm	50ohm, 75ohm	A
10W	CQT20R-500AG	DC to 10GHz	50 ohm	50ohm, 75ohm	A
30W	CQT50R-500AG	DC to 10GHz	50 ohm	50ohm, 75ohm	A
50W	CQT50RC-500AG	DC to 12GHz	50 ohm	50ohm, 75ohm	C
100W	CQT100R-500AG	DC to 10GHz	50 ohm	50ohm, 75ohm	A

Part Designations (Unit : mm)

Part	A	B	C	C1	D	D1
CQT02R	2.70	1.00	0.90		1.30	
CQT02RA	3.00	1.20	0.90		1.30	1.63
CQT05R	5.20	2.20	1.50		1.70	
CQT05RA	5.60	2.80	1.40		1.70	2.20
CQT10R	10.00	4.40	3.30		3.00	
CQT10RB	10.00	5.60	2.20		3.00	
CQT20R	14.00	5.60	4.20		4.50	
CQT50R	23.00	10.00	6.50		7.00	
CQT50RC	25.30	14.50	2.20	3.20	5.20	6.20
CQT100R	19.00	9.00	5.00		9.50	

3. Rating Power with Heat Sink



4. General Electrical Specifications

Items	Specification	Condition
Part	CQT ROD Series	Non Inductive
Rating RF power for Coaxial	1W to 100W	
Resistance Values	50 ohm	Standard
Frequency	DC to 28GHz	
VSWR(Max)	1.20 : 1	
Temp. Coefficient of Resistance.	±200ppm/°C	-55 to +155°C
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 °C	
Storage Temp. Range	-55 to + 155 °C	
Withstanding Voltage	1,500 Volt	60 seconds.
Load Life	$\pm(1.0\% + 0.05 \text{ ohm})$	25°C 90min ON, 30min OFF, 1000hours.
Humidity	$\pm(1.0\% + 0.05 \text{ ohm})$	40°C 90-95% RH, DC 0.1W, 1000hours.
Temperature Cycle	$\pm(0.25\% + 0.05 \text{ ohm})$	-55°C 30min., + 155°C 30min., 5cycles.
Soldering Heat	$\pm(0.25\% + 0.05 \text{ ohm})$	350±5°C, 3seconds,
Solderability	Over 3/4 of surface	230±5°C, 3seconds.
Insulation Resistance	Over 1000 Mohm	Between terminals and resistor body.
Vibration	$\pm(0.25\% + 0.05 \text{ ohm})$	

6. Country of Origin

The resistors are produced at KOREA main factory of Cqtel Co.

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