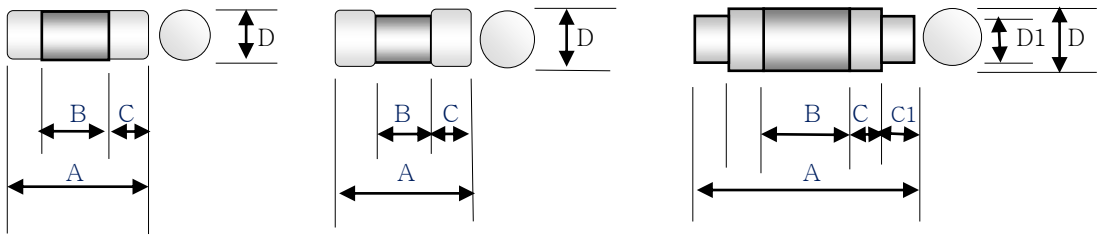
Product Specification / 23.2nd	Part
RF Power Rod Terminations	CQT ROD Series Non Inductive CVD Metal Thin Film

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

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)

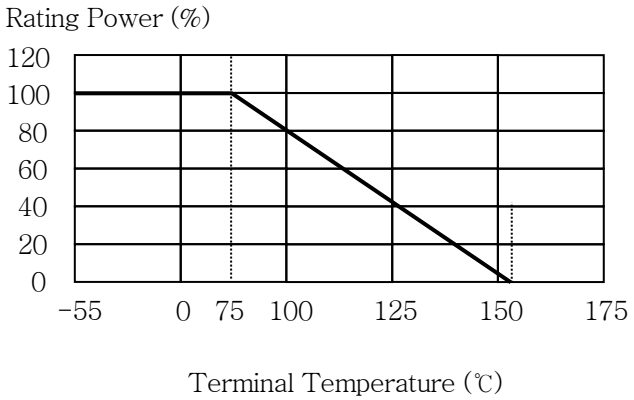
Ordering Information

Part	RF Power	Frequency	Resistance	Values	Type
CQT02RA-500C	1W	DC to 6.0GHz	50 ohm	50ohm, 75ohm	B
CQT02R-500AG	1W	DC to 18GHz	50 ohm	50ohm, 75ohm	A
CQT02R-500UG	1W	DC to 28GHz	50 ohm	50ohm, 75ohm	A
CQT05RA-500C	2W	DC to 4.0GHz	50 ohm	50ohm, 75ohm	B
CQT05R-500AG	2W	DC to 12GHz	50 ohm	50ohm, 75ohm	A
CQT10R-500C	5W	DC to 4.0GHz	50 ohm	50ohm, 75ohm	B
CQT10RA-500NI	5W	DC to 8.0GHz	50 ohm	50ohm, 75ohm	A
CQT10RB-500NI	5W	DC to 8.0GHz	50 ohm	50ohm, 75ohm	A
CQT15R-500AG	10W	DC to 10GHz	50 ohm	50ohm, 75ohm	A
CQT30R-500AG	20W	DC to 10GHz	50 ohm	50ohm, 75ohm	A
CQT40RC-500AG	40W	DC to 12GHz	50 ohm	50ohm, 75ohm	C
CQT60R-500AG	60W	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		1.63	
CQT05R	5.20	2.20	1.50		1.70	
CQT05RA	5.60	2.80	1.40		2.20	
CQT10R	11.00	5.60	2.20		3.30	
CQT10RA	10.00	4.40	3.30		3.00	
CQT10RB	10.00	5.60	2.20		3.00	
CQT15R	14.00	5.60	4.20		4.50	
CQT30R	23.00	10.00	6.50		7.00	
CQT40RC	25.30	14.50	2.20	3.20	6.20	5.20
CQT60R	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 60W	
Resistance Values	50ohm , 75ohm	
CVD	Metal Thin Film	
Frequency	DC to 28GHz	
VSWR(Max)	1.20 : 1	
Temp. Coefficient of Resistance.	±100ppm/℃	-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.