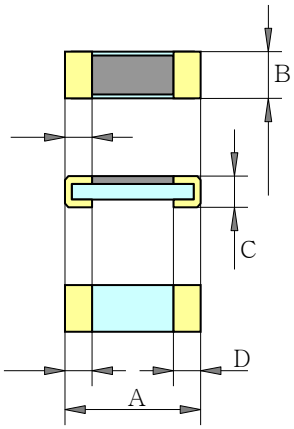
Product Specification / 23.2nd	Part
RF Power Chip Termination	CQT Chip Series

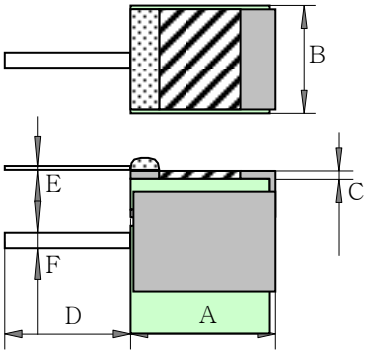
* Specifications, appearance, performance, functions, etc, may be changed without notice

1. This type is designed to RF Termination

2. Dimensional specifications are detailed per the following draft



Type A



Type B

Part Dimensional (Unit : mm)

Ordering Information

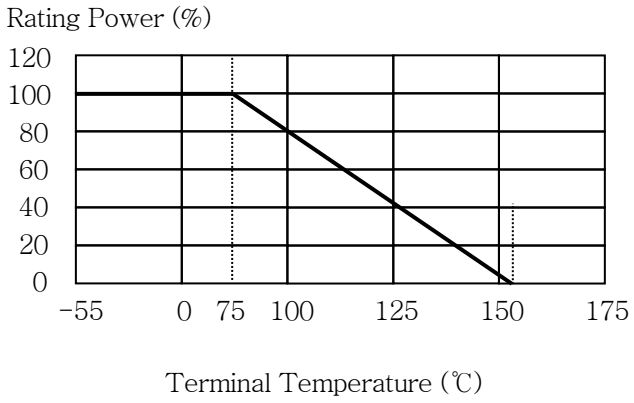
Part No.	RF Power	Frequency	Resistance	Values	Type
CQT10S-500NI	20W	DC to 3.0GHz	50 ohm	50ohm , 75ohm	A
CQT10SA-500NI	20W	DC to 3.0GHz	50 ohm	50ohm , 75ohm	A
CQT10SB-500NI7W	2.5W	DC to 6.0GHz	50 ohm	50ohm , 75ohm	A
CQT10SC-500NI7W	1.5W	DC to 6.0GHz	50 ohm	50ohm , 75ohm	A
CQT10SC-500NI	0.8W	DC to 4.0GHz	50 ohm	50ohm , 75ohm	A
CQT10SD-500NI7W	0.5W	DC to 6.0GHz	50 ohm	50ohm , 75ohm	A
CQT10SD-500NI	0.25W	DC to 4.0GHz	50 ohm	50ohm , 75ohm	A
CQT10SE-500NI	0.125W	DC to 18GHz	50 ohm	50ohm , 75ohm	A
CQT10SF-500NI	0.1W	DC to 28GHz	50 ohm	50ohm , 75ohm	A
CQT10SG-500NI	0.06W	DC to 40GHz	50 ohm	50ohm , 75ohm	A
CQT10SH-500NI	0.05W	DC to 45GHz	50 ohm	50ohm , 75ohm	A

Part No.	RF Power	Frequency	Resistance	Values	Type
CQT50S-500NI	50W	DC to 4.0GHz	50 ohm	50ohm , 75ohm	A
CQT100S-500NI	100W	DC to 3.0GHz	50 ohm	50ohm , 75ohm	A
CQT150S-500NI	150W	DC to 3.0GHz	50 ohm	50ohm , 75ohm	A

Part Designations (Unit : mm)

Part	A	B	C	D	E	F
CQT10S	5.00	2.00	0.80	0.80		
CQT10SA	7.00	2.00	0.80	1.00		
CQT10SB	6.30	3.00	0.55	0.60		
CQT10SC	5.10	2.40	0.55	0.55		
CQT10SD	3.10	1.50	0.55	0.45		
CQT10SE	2.00	1.20	0.50	0.35		
CQT10SF	1.50	0.80	0.30	0.25		
CQT10SG	1.00	0.50	0.30	0.25		
CQT10SH	0.60	0.30	0.12	0.15		
CQT50S	6.30	6.30	1.00	6.00	0.20	1.00
CQT100S	5.70	9.00	1.00	6.00	0.20	1.00
CQT150S	6.30	9.50	1.00	6.00	0.20	1.00

3. Rating Power with Heat Sink



4. General Electrical Specifications

Items	Specification	Condition
Part	CQT Chip Series	
Rating RF power	0.05W to 150W	
Frequency	DC to 45GHz	
Resistance Values	50ohm , 75ohm	
VSWR(Max)	1.20 : 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.