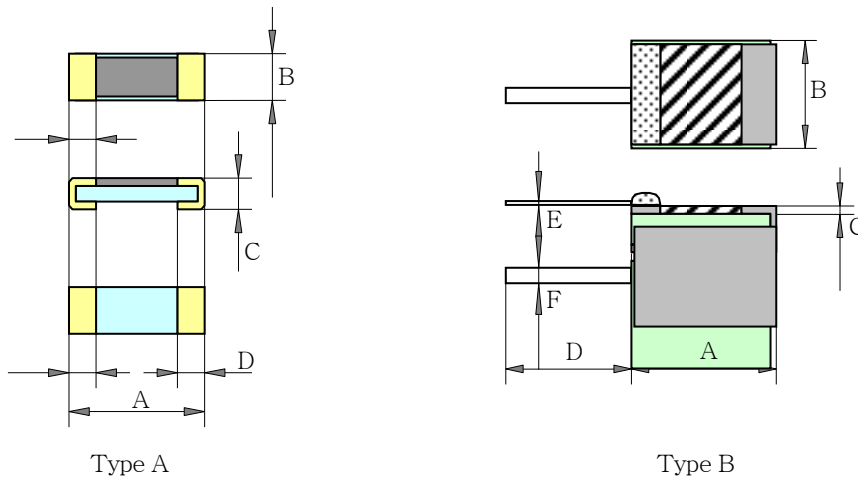


Product Specification	Part
RF Power Chip Termination	CQT Chip Series

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



Part Dimensional (Unit : mm)

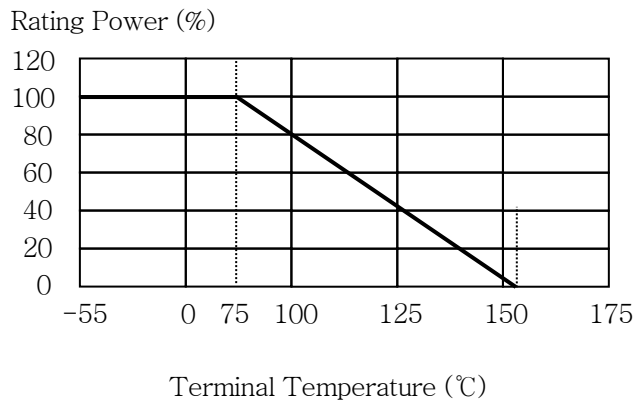
Ordering Information

RF Power	Part No.	Frequency	Resistance	Values	Type
20W	CQT10S-500NI	DC to 3GHz	50 ohm	50ohm , 75ohm	A
20W	CQT10SA-500NI	DC to 3GHz	50 ohm	50ohm , 75ohm	A
3W	CQT10SB-500NI	DC to 4GHz	50 ohm	50ohm , 75ohm	A
2W	CQT10SC-500NI	DC to 4GHz	50 ohm	50ohm , 75ohm	A
0.5W	CQT10SD-500NI	DC to 6GHz	50 ohm	50ohm , 75ohm	A
0.25W	CQT10SE-500NI	DC to 12GHz	50 ohm	50ohm , 75ohm	A
0.2W	CQT10SF-500NI	DC to 18GHz	50 ohm	50ohm , 75ohm	A
0.15W	CQT10SG-500NI	DC to 28GHz	50 ohm	50ohm , 75ohm	A
0.05W	CQT10SH-500NI	DC to 40GHz	50 ohm	50ohm , 75ohm	A
50W	CQT50S-500NI	DC to 4GHz	50 ohm	50ohm , 75ohm	B
100W	CQT100S-500NI	DC to 3GHz	50 ohm	50ohm , 75ohm	B
150W	CQT150S-500NI	DC to 3GHz	50 ohm	50ohm , 75ohm	B

Part Designations (Unit : mm)

Part	A	B	C	D	E	F
CQT10S-500NI	5.00	2.00	0.80	0.80		
CQT10SA-500NI	7.00	2.00	0.80	1.00		
CQT10SB-500NI	6.30	3.00	0.55	0.60		
CQT10SC-500NI	5.10	2.40	0.55	0.55		
CQT10SD-500NI	3.10	1.50	0.55	0.45		
CQT10SE-500NI	2.00	1.20	0.50	0.35		
CQT10SF-500NI	1.50	0.80	0.30	0.25		
CQT10SG-500NI	1.00	0.50	0.30	0.25		
CQT10SH-500NI	0.60	0.30	0.12	0.15		
CQT50S-500NI	6.30	6.30	1.00	6.00	0.20	1.00
CQT100S-500NI	5.70	9.00	1.00	6.00	0.20	1.00
CQT150S-500NI	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 40GHz	
Resistance Values	50 ohm	Standard
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.