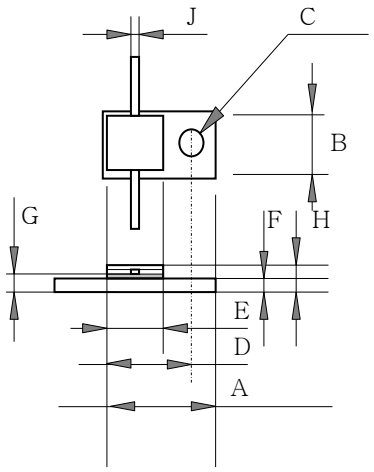
Product Specification / 23.2nd	Part
RF Power Flange Attenuator	CQA Flange Series

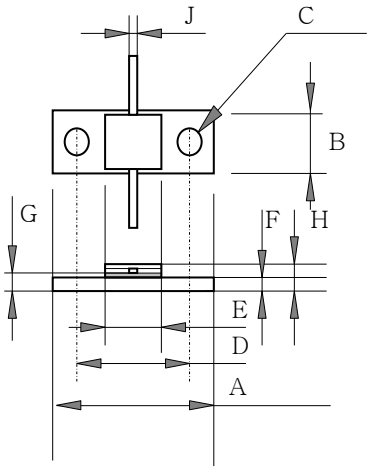
* Specifications, appearance, performance, functions, etc, may be changed without notice

1. This type is designed to RF Device

2. Dimensional specifications are detailed per the following draft



Type A



Type B

Part Dimensional (Unit : mm)

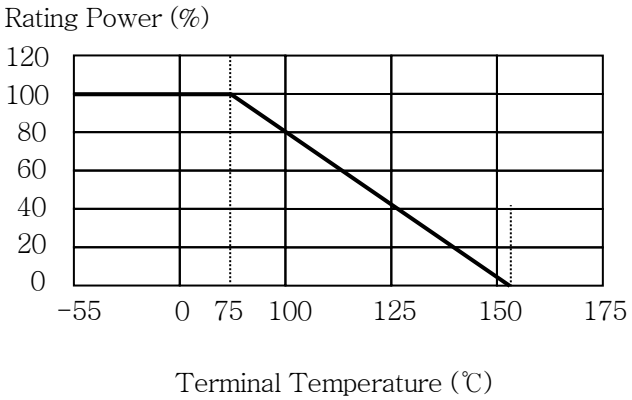
Ordering Information

Part No.	Power	Frequency	Attenuation	Impedance	Type
CQA10F-10dB	10W	5.0Ghz	10dB	50 ohm	A
CQA100F-10dB	100W	4.0Ghz	10dB	50 ohm	B
CQA150F-10dB	150W	2.7Ghz	10dB	50 ohm	B

Part Designations

Part	A	B	C	D	E	F	G	H	J
CQA10F	7.60	5.08	2.95	5.08	2.54	1.50	2.50	3.30	1.00
CQA100F	20.30	5.70	3.30	14.6	8.90	1.50	2.50	3.30	1.00
CQA150F	22.30	6.30	3.30	15.9	9.60	1.50	2.50	3.30	1.00

3. Rating Power with Heat Sink



4. General Electrical Specifications

Items	Specification			Condition
Part	CQA10F	CQA100F	CQA150F	
Rating RF power	10 W	100 W	150W	
Attenuations	1dB to 30dB	10, 20, 30dB	10, 20, 30dB	±1dB
Frequency	DC to 5.0GHz	DC to 4.0GHz	DC to 2.7GHz	
Impedance	50 ohm	50 ohm	50 ohm	
VSWR(Max)	1.25 : 1	1.25 : 1	1.25 : 1	

Note: Other Attenuation 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 Attenuators are produced at KOREA main factory of Cqtel Co.