

RQR

Ceramic Encased Wire Wound Resistors



GENERAL SPECIFICATIONS

Model	Wattage Rating	Resistance Range(Ω)			Resistance Tolerance
		Glass Fiber Core (GC)	Ceramic Core (CC)	Metal Oxide Film (MO)	
RQR 02	2W	0.1~200	0.1~500	10~13K	$R \leq 1\Omega : \pm 10\%$ $R > 1\Omega : \pm 5\%$
RQR 03	3W	0.1~300	0.1~1.0K	10~22K	
RQR 05	5W	0.1~500	0.1~3.0K	10~27K	
RQR 07	7W	0.2~1.0K	0.3~5.0K	10~56K	
RQR 10	10W	0.5~1.5K	0.3~10K	10~75K	
RQR 12	12W	0.5~1.5K	0.3~10K	-	

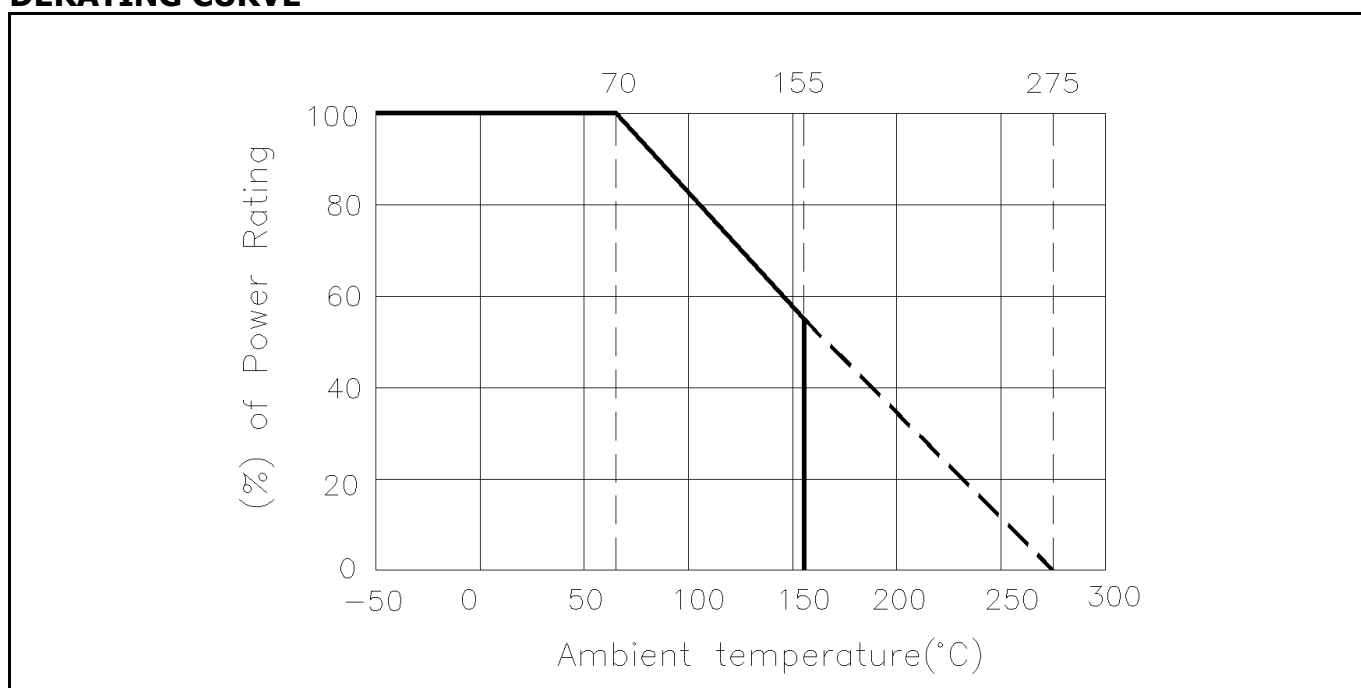
CHARACTERISTICS

Values in [] mean change in Ω after test

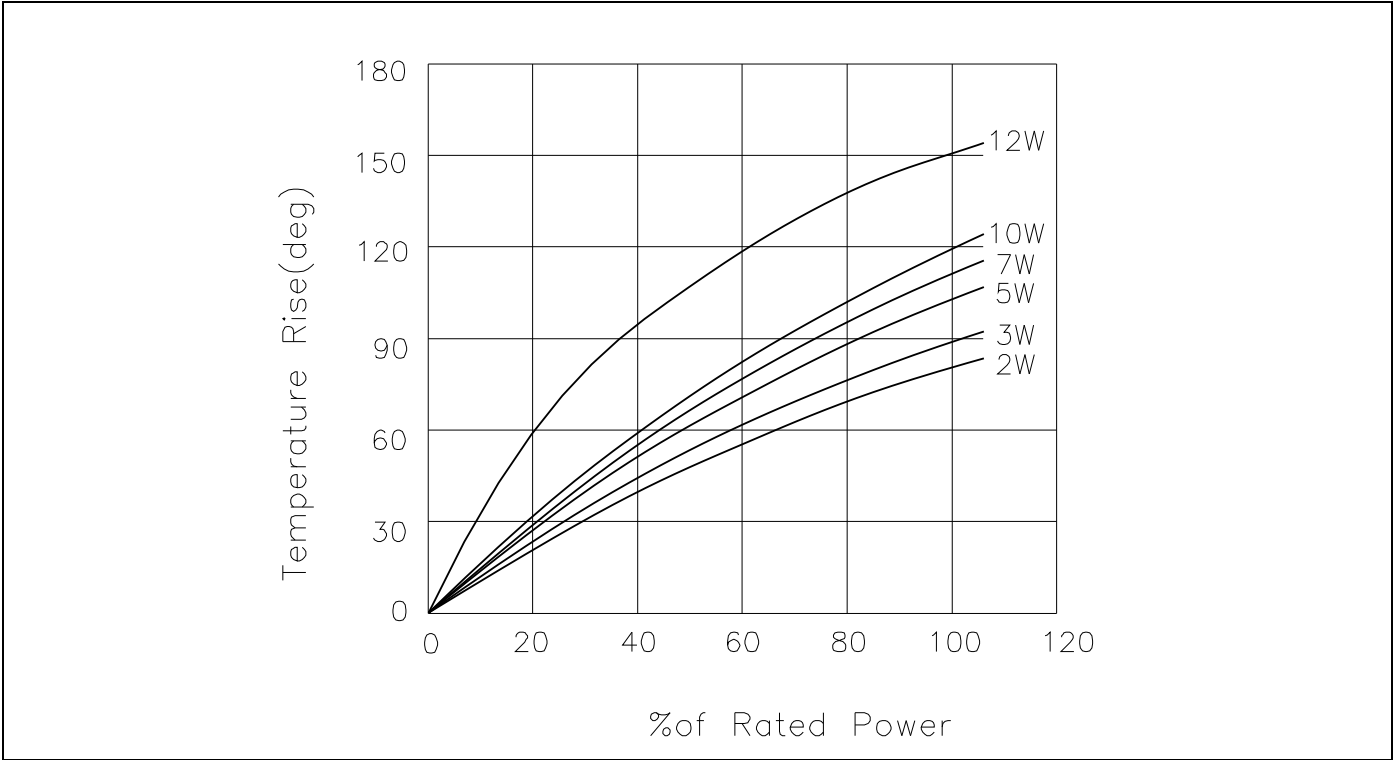
Temperature Range	-25 $^{\circ}$ C~155 $^{\circ}$ C
Insulation Resistance	DC500V, 20M Ω Minimum
Dielectric Withstanding Voltage	AC 1500V for 1minute
Temp. Coefficient	Less than 1 Ω :490~1300ppm/ $^{\circ}$ C. More than 1 Ω :490ppm/ $^{\circ}$ C
Short Time Overload	$\Delta R \pm [2\% + 0.05\Omega]$ 10 Times rated power for 5 sec.
Moisture Resistance	$\Delta R \pm [3\% + 0.05\Omega]$ DC 100V, 40 $^{\circ}$ C 95% RH, 500h
Thermal Shock	$\Delta R \pm [2\% + 0.05\Omega]$ Power Rating 30 min., -25 $^{\circ}$ C 15min.
Moisture Load Life	$\Delta R \pm [3\% + 0.05\Omega]$ 40 $^{\circ}$ C 95% RH, 10% Power Rating 90min.-ON
Load Life	$\Delta R \pm [5\% + 0.05\Omega]$ MOR = $\pm 15\%$ Power Rating 90min.-ON, 30min.-OFF
Solderability	75% Coverage minimum

Note : Applied voltage : AC RMS voltage

DERATING CURVE

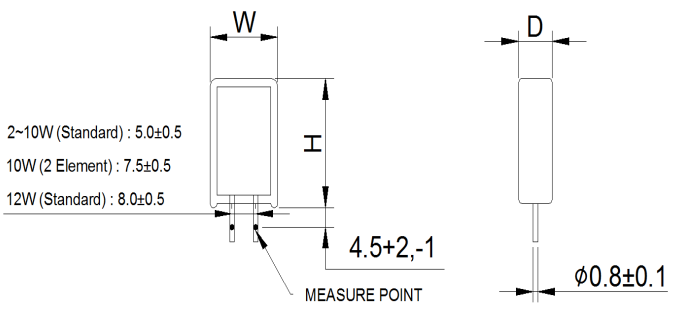


SURFACE TEMPERATURE INCREASE VERSUS POWER LOAD



DIMENSIONS

Power Rating(W)	Dimensions(mm)		
	W	D	H
2	11±1	7±1	20.5±1.5
3	12±1	8±1	25±1.5
5	13.5±1	9.5±1	25±1.5
7	15±1	10.5±1	40±1.5
10	16±1	12±1	35±1.5
12	18±1	10±1	32±1.5



2~10W (Standard) : 5.0±0.5

10W (2 Element) : 7.5±0.5

12W (Standard) : 8.0±0.5

ORDERING PROCEDURE EXAMPLE

