

# RQA

## Ceramic Encased Wire Wound Resistors



### GENERAL SPECIFICATIONS

Model	Wattage Rating	Resistance Range( $\Omega$ )			Resistance Tolerance
		Glass Fiber Core (GC)	Ceramic Core (CC)	Metal Oxide Film (MO)	
RQA 02	2W	0.1~200	0.1~500	10~13K	$R \leq 1\Omega : \pm 10\%$ $R > 1\Omega : \pm 5\%$
RQA 03	3W	0.1~300	0.1~1.0K	10~22K	
RQA 05	5W	0.1~500	0.1~3.0K	10~27K	
RQA 07	7W	0.2~1.0K	0.3~5.0K	10~56K	
RQA 10	10W	0.5~1.5K	0.3~10K	10~75K	
RQA 15	15W	1.0~1.5K	0.5~12K	10~100K	
RQA 20	20W	1.0~2.0K	0.5~15K	10~100K	

### CHARACTERISTICS

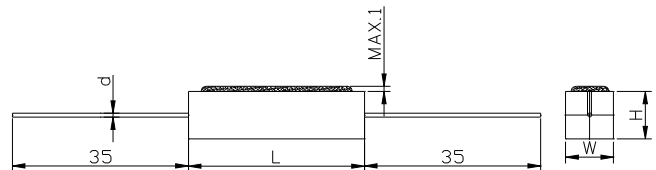
Values in [ ] mean change in  $\Omega$  after test

Temperature Range	-25 $^{\circ}$ C~155 $^{\circ}$ C		
Insulation Resistance	DC500V, 20M $\Omega$ Minimum		
Dielectric Withstanding Voltage	AC 1500V for 1minute		
Temp. Coefficient	GC, CC : $\pm 260$ ppm/ $^{\circ}$ C; MO : $\pm 400$ ppm/ $^{\circ}$ 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, 30min.-OFF, 500H	
Load Life	$\Delta R \pm [5\% + 0.05\Omega]$	Power Rating 90min.-ON, 30min.-OFF, 500H	
Solder ability	75% Coverage minimum		

Note : Applied voltage : AC RMS voltage

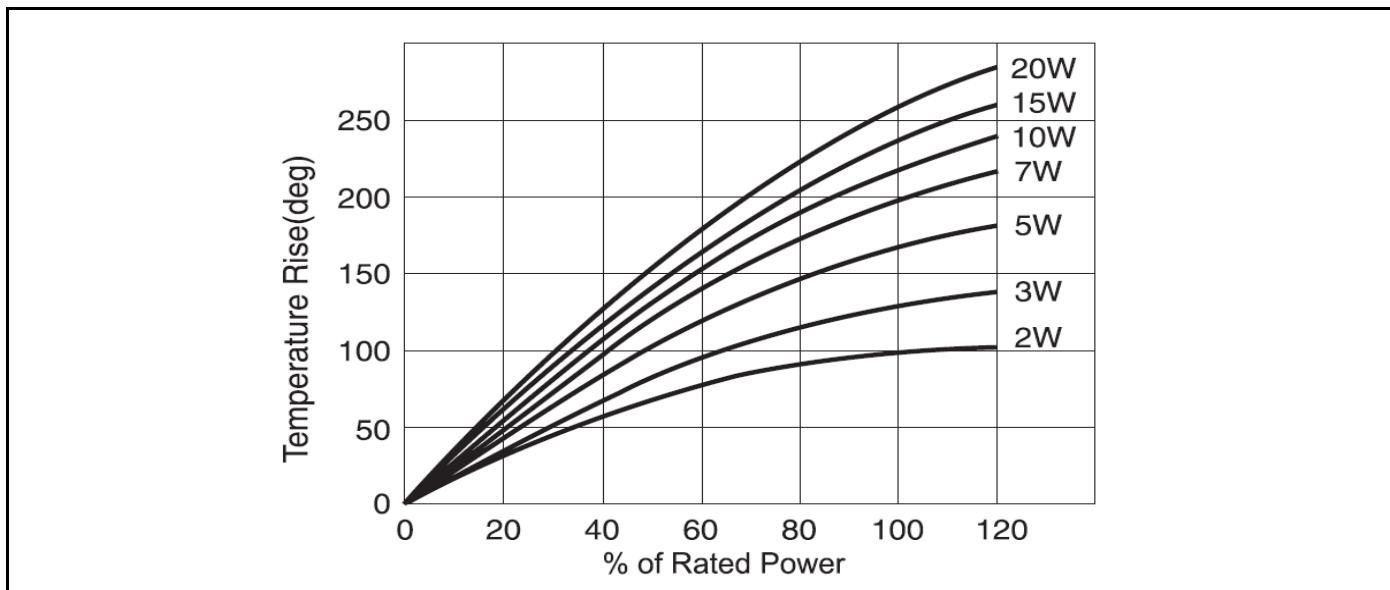
### DIMENSIONS

Power Rating(W)	Dimensions(mm)			
	L	W	H	d $\pm 0.1$
2	18 $\pm 1.2$	6.3 $\pm 1.0$	6.3 $\pm 1.0$	0.8
3	22 $\pm 1.5$	8.0 $\pm 1.0$	8.0 $\pm 1.0$	0.8
5	22 $\pm 1.5$	9.5 $\pm 1.0$	9.5 $\pm 1.0$	0.8
7	35 $\pm 1.5$	9.5 $\pm 1.0$	9.5 $\pm 1.0$	0.8
10	47 $\pm 1.5$	9.5 $\pm 1.0$	9.5 $\pm 1.0$	0.8
15	47 $\pm 1.5$	12.5 $\pm 1.2$	12.5 $\pm 1.2$	0.8
20	63 $\pm 2.0$	12.5 $\pm 1.2$	12.5 $\pm 1.2$	0.8

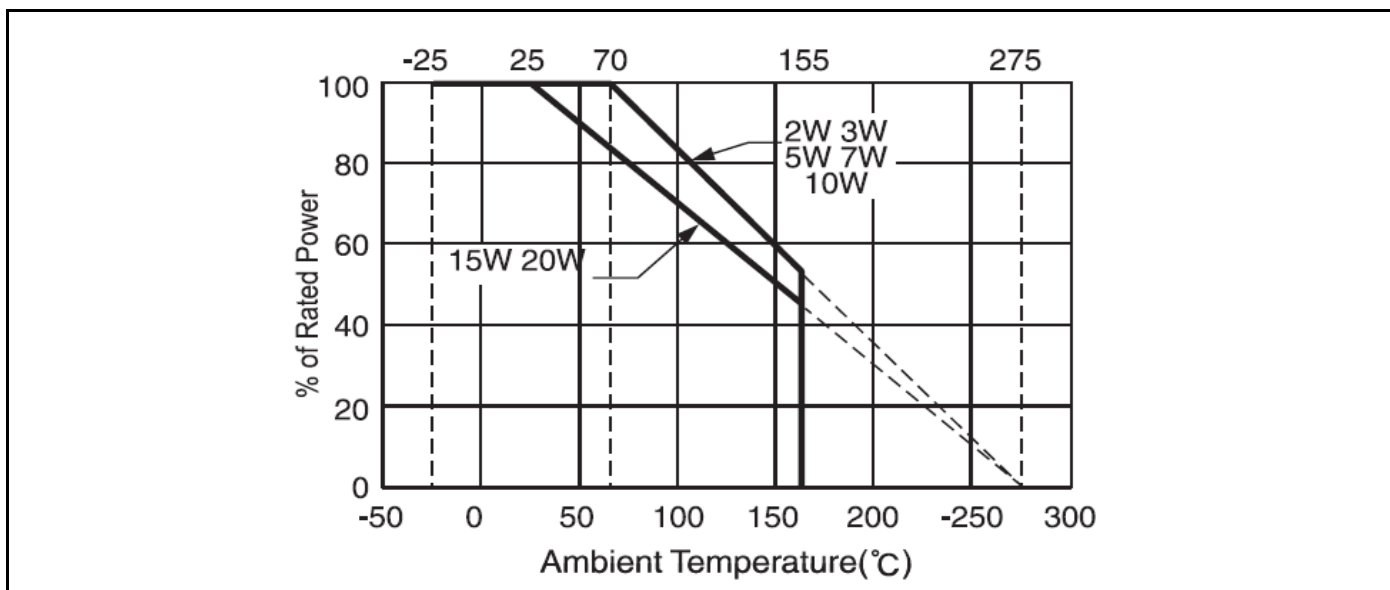




**■ SURFACE TEMPERATURE INCREASE VERSUS POWER LOAD**



**■ DERATING CURVE**



**■ ORDERING PROCEDURE EXAMPLE**

