

Model No.

WCR**

■ Features

■ Surface mounting type, [Rated Power 3W and 5W high power applications](#).

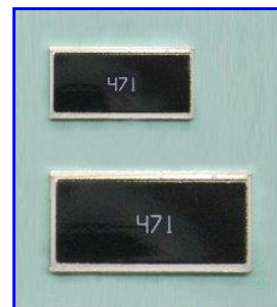
Ideal for use in [the primary Power Supply Circuit](#).

The long-side electrode structure provides [High reliability for solder joints](#).

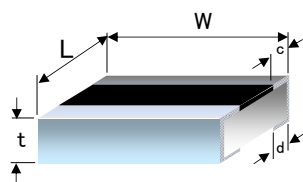
■ The long-side electrode structure provides [heat dissipation benefits](#).

Covers [a wide Resistance Value range](#) from 1Ω to 1MΩ.

Compliant with [European RoHS Compliance](#).



■ Dimensions



(Unit: mm)

Model	L	W	t	c	d
WCR110	5.0±0.2	11.0±0.2	0.56±0.15	0.60±0.20	1.50±0.20
WCR160	8.0±0.20	16.0±0.2	0.56±0.15	0.70±0.20	2.50±0.20

■ Specifications

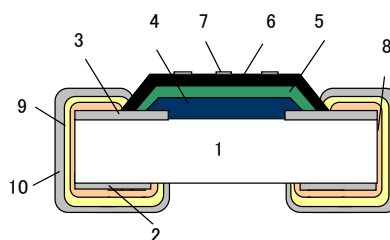
Model	Rated Power (W)	Resistance Value Tolerance	Resistance Value Range (Ω)	TCR (ppm/°C)	Max. Working voltage	Max. Overload voltage
WCR110	3.0 W	F (±1%)	10~91	±200	200V	400V
			100 to 9.1k	±100		
WCR160	5.0 W		10k to 1M	±200	250V	500V
		J (±5%)	1 to 1M	±200		

※The bolded sections are common

*Operating temperature range: -55 to +155° C

■ Constructor

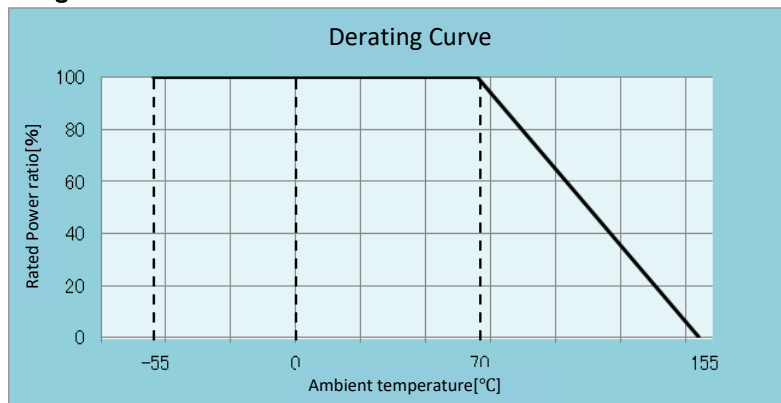
No.	Component Name
1	Ceramic Substrate
2	Back Electrode
3	Surface Electrode
4	Resistor
5	Protective coat I
6	Protective coat II
7	Marking
8	Side Electrode
9	Ni Plating
10	Sn Plating



*Design and specifications are subject to change without notice. Please confirm before purchase and use.

Power rating

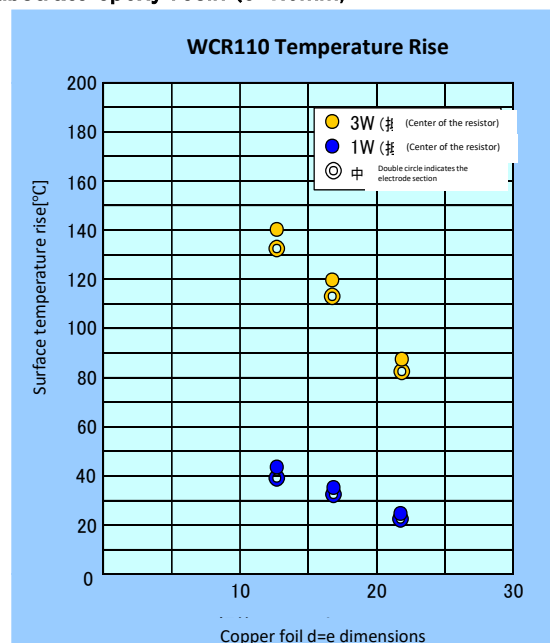
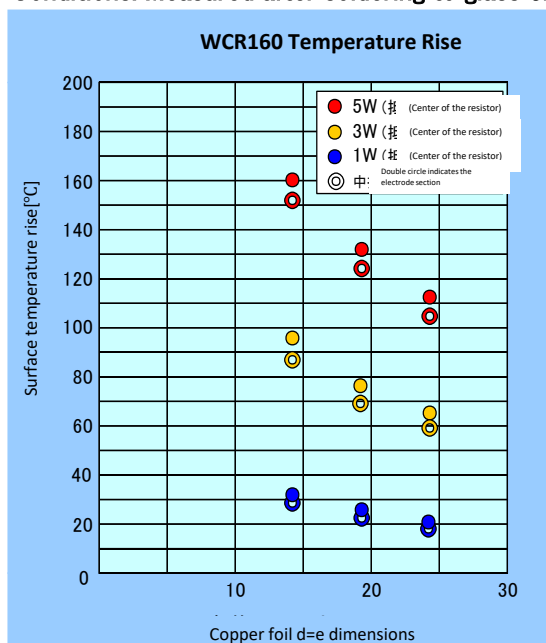
When used at ambient temperatures of 70° C or higher, reduce the Rated Power according to the following derating curve.



Surface Temperature Rise

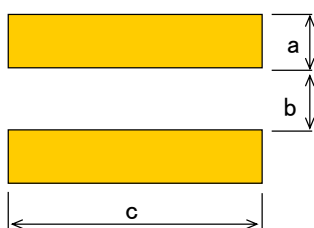
Please refer to the following for the relationship between Rated Power ratio and Temperature Rise.

Conditions: Measured after soldering to glass cloth substrate epoxy resin (t=1.6mm,

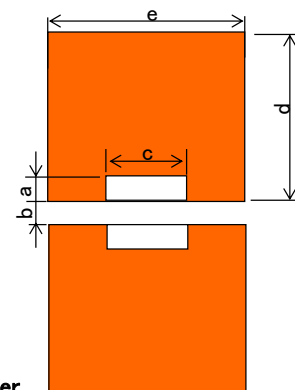


*Design to ensure the center temperature of the resistor does not exceed 155° C

Recommended Land Pattern Dimensions



	(mm)		
	a	b	c
WCR110	2.5	2.0	11.0
WCR160	3.5	3.2	16.0



Measured Copper Foil Dimensions