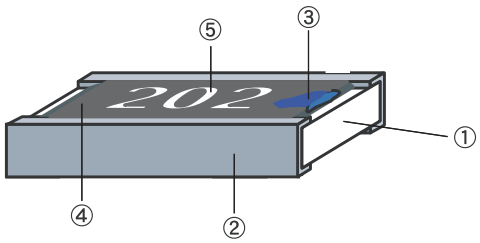
High Power Chip Resistors

Model No.	WCR32	WCR50
Size Code Inch	1206	2010
Size Code mm	3216	5025

■Features
- Wide terminal made higher reliability of solder joint, compared to conventional chip resistor.
- Wide terminal made possible high power handling. (Rated power, WCR50 : 1W, WCR32 : 0.5W)
- High joint strengh against heat shock.
- Resistance ranging 10mΩ～1MΩ.

■Applications
- Automotive electronics such as E.C.U. ,etc.
- Circuits requiring high resistance to vibration.
- For current detection.

■Constructions



Symbol	Material List
①	Alumina Substrate
②	Electrode
③	Resistive Film
④	Over coat
⑤	Marking

■Model Designation

WCR32 - **100** **J** **V**

①Model No. ②Resistance ③Tolerance ④Packaging

① Model No.
WCR32
WCR50

② Resistance	
3 or 4 digit (Resistance)	(Marking)
0Ω	→ 000
47Ω	→ 470
1kΩ	→ 102
1.02kΩ	→ 1021

③ Tolerance	
Symbol	Tolerance(%)
F	± 1
J	± 5

0Ωtype is no marking

④ Packaging	
Symbol	Packaging
B	Bulk
V	Paper taping(WCR32)
E	Embossed taping(WCR50)

■Rating

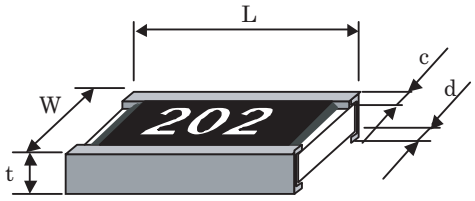
Model No.	Rated Wattage (W)	Tolerance (%)	Resistance Range E-24,E-96 Series Standard(Ω)	T.C.R. (ppm/℃)	Max.Working Voltage (V)	Max. Overload Voltage (V)
WCR32	0.50	J(±5%)	10m～91m	±200	200	400
		F(±1%) J(±5%)	0.1～1M			
WCR50	1.00	J(±5%)	10m～91m	±200	200	400
		F(±1%) J(±5%)	0.1～1M			

Operating Temp. Range: : -55℃～+155℃

0Ωtype

Model No.	Rated Current (A)	Resistance (Ω)
WCR32	2.0	Max. 50mΩ
WCR50		

■Dimensions

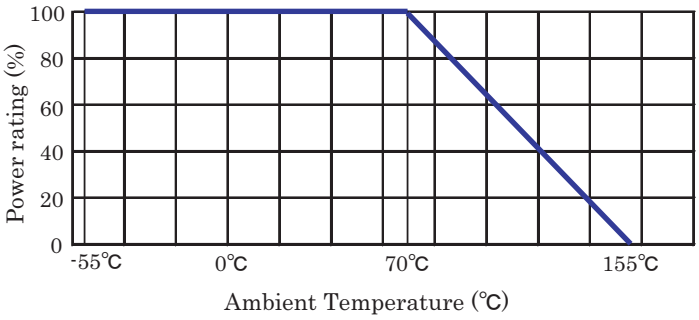


(mm)

Model No.	L	W	c	d	t
WCR32	3.20±0.15	1.60±0.15	0.30±0.20	0.50±0.20	0.55 +0.15/-0.05
WCR50	5.00±0.20	2.50±0.20	0.50±0.20	0.60±0.20	0.56±0.15

■Power rating

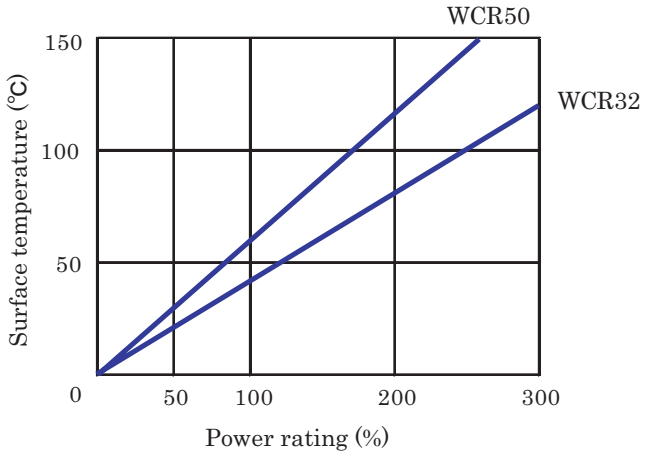
For resistors operated in ambient temperature abobe 70℃, power rating must be derated in accordance with the derating curve.



■Surface temperature

Surface temperature rise is shown in this figure.

Condition: : Measured by soldering on glass cloth base material epoxy resin (t=1.6mm).



■Packaging

Refer "Dimension, Packaging, etc."