



# High Power Low Resistance Chip Resistors

Model No.	WLCR32	WLCR50	WLCR64
Size Code INCH	1206	2010	2512
Size Code mm	3216	5025	6432

## ■ Features

- High power type, milliohm resistor product. Low resistance range covers from 10mΩ.
- Wide terminal made higher reliability of solder joint, compared to conventional chip resistor.
- Wide terminal made possible high power handling. (Rated power, WLCR64: 2W, WLCR50: 1W, WLCR32: 0.5W)
- High joint-strength against heat shock.

## ■ Applications

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

## ■ Model Designation

WLCR32

R10

J

V

① Model No.

② Resistance

③ Tolerance

④ Packaging

① Model No.
WLCR32
WLCR50
WLCR64

② Resistance	
3 or 4 digit	
(Less than 100mΩ: all 4 digit)	
(Example)	
10mΩ	→ R010
470mΩ	→ R47
102mΩ	→ R102

③ Tolerance	
Symbol	Tolerance(%)
F	± 1.0
J	± 5.0

④ Pckging	
Symbol	Packaging
B	Bulk
V	Paper taping (WLCR32)
E	Embossed taping (WLCR50, WLCR64)

## ■ Rating

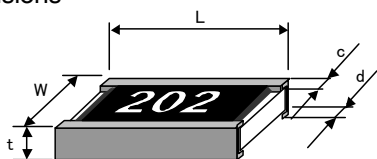
Model No.	Rated Wattage (W)	Tolerance (%)	Resistance (mΩ)	T.C.R. (ppm/°C)	Max. Working Voltage (V)	Max. Overload Voltage (V)
WLCR32	0.5	J: ±5%	10~33	±500	200	400
			36~91	±350		
			100~910	±200		
		F: ±1%	100~976	±200		
WLCR50	1.0	J: ±5%	10~33	±500	200	400
			36~91	±350		
			100~910	±200		
		F: ±1%	100~976	±200		
WLCR64	2.0	J: ±5%	10~33	±500	200	400
			36~91	±350		
			100~910	±200		
		F: ±1%	100~976	±200		

Operating Temperature Range : -55°C ~ +155°C



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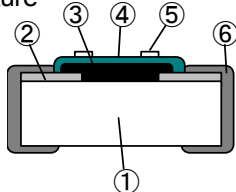
## ■ Dimensions



Unit : mm

Model No.	L	W	c	d	t
WLCR32	3.20±0.15	1.60±0.15	0.30±0.20	0.50±0.20	0.55 +0.15/-0.05
WLCR50	5.00±0.20	2.50±0.20	0.50±0.20	0.60±0.20	0.56±0.15
WLCR64	6.30±0.20	3.20±0.20	0.50±0.20	0.90±0.20	0.56±0.15

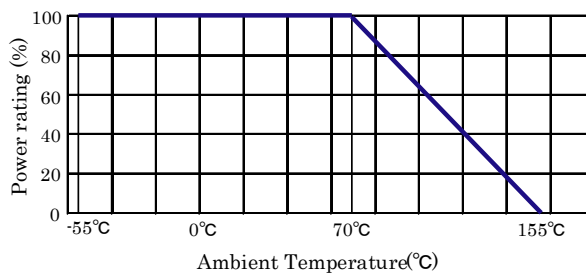
## ■ Structure



Symbol	Material List
①	Ceramic Substrate
②	Conductor
③	Resistor
④	Over coat
⑤	Marking
⑥	Side Electrode

## ■ Surface Temperature

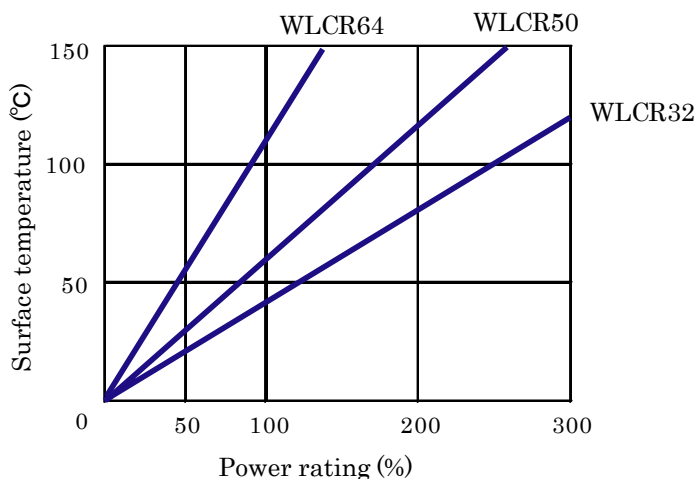
For resistors operated in ambient temperature above 70 °C, power rating must be derated in accordance with the derating curve.



## ■ 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."