

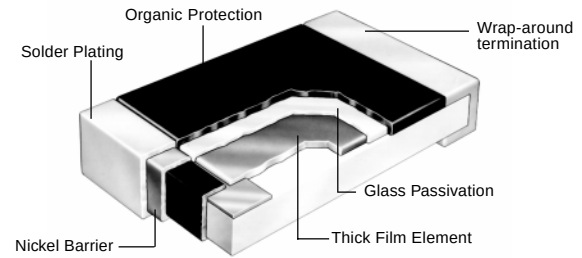
GENERAL PURPOSE THICK FILM CHIP RESISTOR

ISO-9001
Registered



WCR SERIES

- Wide ohmic range 1Ω to 22MΩ
- Tolerances to ±0.5%
- TCR down to ±50 ppm/°C
- Zero ohm jumpers available



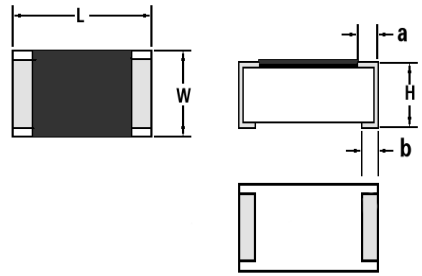
SPECIFICATIONS

P/N	TCR (ppm/°C)	Ohmic Range (Ω)				Rated Power at 70°C (milliwatts)	Max Working Voltage	Max Overload Voltage	Packaging	
		±5%	±2%	±1%	±0.5%				Carrier Tape	Qty
WCR0402	±200	10R-5.6M	N/A	N/A	N/A	63	50	100	Card- board	10,000
	±100	N/A	N/A	10R-1M	N/A					
	±50	N/A	N/A	N/A	100R-1M					
WCR0603	±400	1R0-9R1,1M1-10M	N/A	1R0-9R76	N/A	100	50	100	Card- board	5,000
	±200	10R-1M	N/A	N/A	N/A					
	±100	N/A	10R-1M	10R-1M	N/A					
	±50	N/A	N/A	N/A	10R-1M					
WCR0805	±400	1R0-9R1,6M2-22M	N/A	1R0-9R76,1M1-10M	N/A	125	150	200	Card- board	5,000
	±200	10R-5.6M	10R-1M	N/A	N/A					
	±100	N/A	N/A	10R-1M	N/A					
	±50	N/A	N/A	N/A	10R-1M					
WCR1206	±400	1R0-9R1,6M2-22M	N/A	1R0-9R76,1M1-10M	N/A	250	200	400	Card- board	5,000
	±200	10R-5M6	10R-1M	N/A	N/A					
	±100	N/A	N/A	10R-1M	N/A					
	±50	N/A	N/A	N/A	10R-1M					
WCR1210	±400	1R0-9R1,1M1-10M	N/A	1R0-9R76,1M1-10M	N/A	250	200	400	Plastic	4,000
	±200	10R-1M	10R-1M	N/A	N/A					
	±100	N/A	N/A	10R-1M	10R-976K					
WCR2010	±400	1R0-9R1,6M2-22M	N/A	1R0-9R76,1M1-10M	N/A	500	200	400	Plastic	4,000
	±200	10R-5M6	10R-1M	N/A	N/A					
	±100	N/A	N/A	10R-1M	N/A					
	±50	N/A	N/A	N/A	10R-976K					
WCR2512	±400	1R0-9R1,6M2-22M	N/A	1R0-9R76,1M1-10M	N/A	1000	200	400	Plastic	4,000
	±200	10R-5M6	10R-1M	N/A	N/A					
	±100	N/A	N/A	10R-1M	N/A					
	±50	N/A	N/A	N/A	10R-976K					

WCR SERIES

DIMENSIONS (inches)

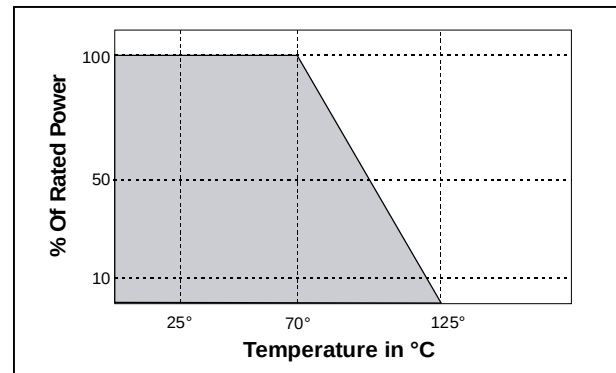
Model	L	W	H	a	b
WCR0402	0.039±0.002	0.020±0.002	0.014±0.002	0.008±0.004	0.010±0.002
WCR0603	0.063±0.008	0.032±0.008	0.020±0.005	0.012±0.009	0.012±0.009
WCR0805	0.079±0.008	0.049±0.008	0.020±0.005	0.016±0.009	0.012±0.009
WCR1206	0.125±0.009	0.063±0.008	0.024±0.005	0.020±0.013	0.016±0.009
WCR1210	0.126±0.008	0.102±0.008	0.024±0.004	0.020±0.012	0.016±0.008
WCR2010	0.197±0.008	0.098±0.008	0.024±0.004	0.020±0.012	0.016±0.008
WCR2512	0.248±0.008	0.122±0.008	0.024±0.004	0.020±0.012	0.016±0.008



ENVIRONMENTAL PERFORMANCE

Test Conditions	Test Method	Max Change (5%)	Max Change (1%)
Short Time Overload	5 Seconds 2.5 X Rated Power	±2.0%	±0.75%
Temperature Cycling	5 Cycles -55°C to +125°C	±0.5%	±0.5%
Humidity	1000 Hours 40°C ±2°C 90-95% RH	±3.0%	±1.0%
Load Life	1000 Hours 70°C ±3°C	±3.0%	±1.0%
High Temperature Exposure	1000 Hours 125°C ±3°C	±1.0%	±1.0%
Low Temperature Exposure	1000 Hours -55°C ±3°C	±1.0%	±1.0%
Effects of Solder Heat	10 ±1 Seconds 260°C ±5°C	±1.0%	±0.75%
Solderability	3 ±0.5 Seconds 235°C ±5°C	95% Min Coverage	95% Min Coverage

POWER DERATING CHART



HOW TO ORDER

Sample Part Number: WCR - WCR1206 - 1001 - F - P - LT

Model _____
WCR0402, WCR0603, WCR0805,
WCR1206, WCR1210, WCR2010, WCR2512

Resistance _____
3-digit resistance code for tolerances G and J.
4-digit resistance code for tolerances F and D.

Tape & Reel Packaging

Tape Type
(P=Paper, E=Plastic)

Tolerance
J=±5%, G=±2%, F=±1, D=±0.5%