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# **SPECIFICATIONS**

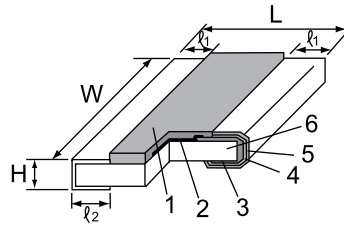
Wide Terminal Thick Film Chip Resistors

Version January 2013

# Wide Terminal Thick Film Chip Resistors

## Features

- High Power in standard size
- Suitable for both wave and reflow soldering
- Application: AV adapters, LCD back light, camera strobe, etc.



1. Protective Layer
2. Resistive element
3. Termination (Inner) Ni / Cr
4. Termination (Middle) Ni
5. Termination (Outer) Sn
6. High Purity Alumina substrate



Type	Power Rating at 70°C	Max Working Voltage	Max Overload Voltage	Dielectric Withstanding Voltage	Tolerance %	Resistance Range	Dimension (mm)				
							L	W	H	l <sub>1</sub>	l <sub>2</sub>
0508	1/3W	150V	300V	500V	±1% ±5%	10Ω ~ 1MΩ 10Ω ~ 1MΩ	1.20±0.10	2.00±0.10	0.55±0.10	0.20±0.10	0.30±0.20
0612	1/2W	200V	400V	500V	±1% ±5%	10Ω ~ 1MΩ 1Ω ~ 1MΩ	1.60±0.15	3.20±0.15	0.55±0.10	0.45±0.20	0.30±0.20
1020	1W	200V	400V	500V	±1% ±5%	10Ω ~ 1MΩ 1Ω ~ 1MΩ	2.50±0.15	5.00±0.15	0.55±0.10	0.60±0.20	0.40±0.20
1218	1W	200V	400V	500V	±1% ±5%	1Ω ~ 1MΩ 1Ω ~ 1MΩ	3.10±0.10	4.60±0.15	0.55±0.10	0.45±0.20	0.40±0.20
1225	1.5W	200V	400V	500V	±1% ±5%	10Ω ~ 1MΩ 10Ω ~ 1MΩ	3.10±0.15	6.25±0.15	0.55±0.10	0.45±0.20	0.40±0.20

Note: Wide Terminal Part No. System on Page 3.

## Marking on the Resistor Body

- All case sizes except 0201 and 0402
  - ±5% Tolerance: 10Ω ~ 10MΩ = 3 digit marking
    - 1<sup>st</sup> & 2<sup>nd</sup> digits are significant figures of the resistance
    - 3<sup>rd</sup> digit indicates number of zeros
    - 1Ω ~ 9.9Ω = 3 digit marking, "R" represents decimal point
  - ±1%, 5% Tolerance: <1Ω = 3 digit marking, "R" represents decimal point

±5%  
10Ω ~ 10MΩ  
154 = 150000Ω = 150KΩ



±5%  
1Ω ~ 9.9Ω  
4R7 = 4.7Ω



±1%, ±5%  
0.1Ω ~ 0.99Ω  
R36 = 0.36Ω



- All case sizes except 0201, 0402 and 0603
  - ±1% Tolerance: 10Ω ~ 10MΩ = 4 digit marking
    - 1<sup>st</sup> & 3<sup>rd</sup> digits are significant figures of the resistance
    - 4<sup>th</sup> digit indicates number of zeros
    - 1Ω ~ 9.9Ω = 3 digit marking, "R" represents decimal point

±1%  
10Ω ~ 10MΩ  
2432 = 24300Ω = 24K3Ω



±1%  
1Ω ~ 9.9Ω  
3R30 = 3.30Ω

