

ACPP

Precision Surface Mount Passivated Resistors



FEATURES

- Precision thin film technology
- Extended ohmic range 10R – 1M Ω
- Precision to $\pm 0.1\%$ and 15ppm/ $^{\circ}\text{C}$
- Passivated range for superior humidity performance
- RoHS Compliant

CHARACTERISTICS

Tolerance (Code)	$\pm 0.1\%$ (B), $\pm 0.25\%$ (C), $\pm 0.5\%$ (D)
Operating temperature	-55 $^{\circ}\text{C}$ to +155 $^{\circ}\text{C}$
Temperature coefficient	$\pm 15\text{ppm}/^{\circ}\text{C}$, $\pm 25\text{ppm}/^{\circ}\text{C}$, $\pm 50\text{ppm}/^{\circ}\text{C}$
Overload	$\leq \pm 0.2\%$, $\leq \pm 0.1\%$ (ACPP0402), RCWV*2.5 or maximum overload voltage (whichever is lowest) for 2 seconds
Thermal shock	$\leq \pm 0.02\%$, $\leq \pm 0.1\%$ (ACPP0402), -55 $^{\circ}\text{C}$ +150 $^{\circ}\text{C}$ 100 cycles
Endurance	$\leq \pm 0.05\%$, $\leq \pm 0.25\%$ (ACPP0402), 70 $\pm$ 2 $^{\circ}\text{C}$, RCWV for 1000 hours with 1.5 hours on and 0.5 hours off
Humidity	$\leq \pm 0.05\%$, $\leq \pm 0.5\%$ (ACPP0402), 1000 hours at 40 $\pm$ 2 $^{\circ}\text{C}$, 90-95% R.H with 1.5 hours on and 0.5 hours off

ELECTRICAL SPECIFICATIONS

Type	Wattage	Maximum operating voltage	Maximum overload voltage	TCR ppm/ $^{\circ}\text{C}$	Ohmic value range
ACPP0402	0.0625	25V	50V	± 15	49R9 - 12K
				± 25	24R9 - 24K9
				± 50	
ACPP0603	0.0625	50V	100V	± 15	24R9 - 332K
				± 25	
				± 50	
ACPP0805	0.1	100V	200V	± 15	10R - 1M
				± 25	
				± 50	
ACPP1206	0.125	150V	300V	± 15	10R - 1M
				± 25	
				± 50	
ACPP2010	0.25	150V	300V	± 15	24R9 - 1M
				± 25	10R - 1M5
				± 50	
ACPP2512	0.5	150V	300V	± 15	24R9 - 1M
				± 25	10R - 1M5
				± 50	

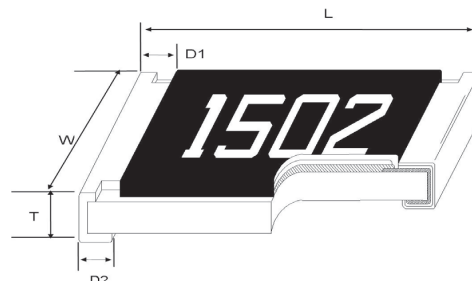
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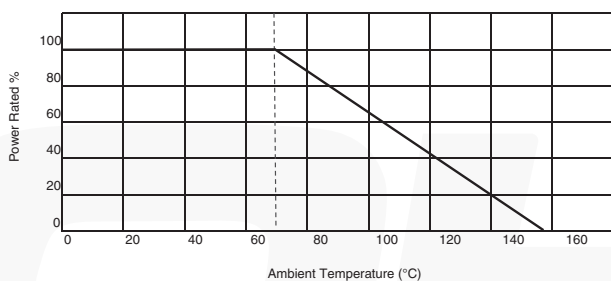
DIMENSIONS

(mm)

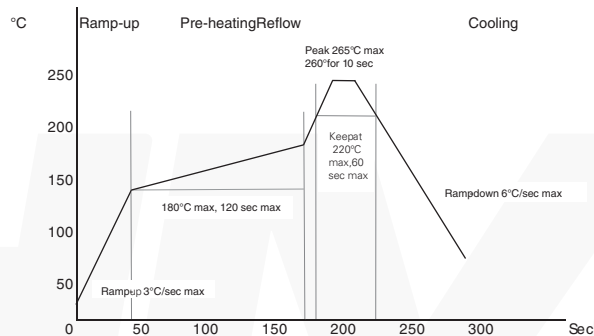
Series	L	W	T	D1	D2
ACPP0402	1.00 ± 0.05	0.50 ± 0.05	0.30 ± 0.05	0.20 ± 0.10	0.20 ± 0.10
ACPP0603	1.55 ± 0.10	0.80 ± 0.10	0.45 ± 0.10	0.30 ± 0.20	0.30 ± 0.20
ACPP0805	2.00 ± 0.15	1.25 ± 0.15	0.55 ± 0.10	0.30 ± 0.20	0.40 ± 0.20
ACPP1206	3.05 ± 0.15	1.55 ± 0.15	0.55 ± 0.10	0.42 ± 0.20	0.35 ± 0.20
ACPP2010	4.90 ± 0.15	2.40 ± 0.15	0.55 ± 0.10	0.60 ± 0.30	0.50 ± 0.20
ACPP2512	6.30 ± 0.15	3.10 ± 0.15	0.55 ± 0.10	0.60 ± 0.30	0.50 ± 0.20



Derating Curve



Soldering Curve



ORDERING INFORMATION

Standard Resistor:

ACPP0603 100K B 15PPM

Series

Resistance
Value

Tolerance
B= ±0.1%
C= ±0.25%
D= ±0.5%

TCR
±15ppm/°C
±25ppm/°C
±50ppm/°C