

# ACPP Precision Surface Mount Passivated Resistors



- Precision thin film technology
- Extended ohmic range 10R – 1M5
- 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)
Operating temperature:	$-55^{\circ}\text{C}$ to $+155^{\circ}\text{C}$
Temperature coefficient:	$\pm 15\text{ppm}/^{\circ}\text{C}$ (A), $\pm 25\text{ppm}/^{\circ}\text{C}$ (E), $\pm 50\text{ppm}/^{\circ}\text{C}$ (F)
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	$\pm 15$	49R9 - 12K
				$\pm 25$	24R9 - 24K9
ACPP0603	0.0625	50V	100V	$\pm 15$	24R9 - 332K
				$\pm 25$	
				$\pm 50$	
ACPP0805	0.1	100V	200V	$\pm 15$	10R - 1M
				$\pm 25$	
				$\pm 50$	
ACPP1206	0.125	150V	300V	$\pm 15$	10R - 1M
				$\pm 25$	
				$\pm 50$	
ACPP2010	0.25	150V	300V	$\pm 15$	24R9 - 1M
				$\pm 25$	10R - 1M5
				$\pm 50$	
ACPP2512	0.5	150V	300V	$\pm 15$	24R9 - 1M
				$\pm 25$	10R - 1M5
				$\pm 50$	

ARCOL UK Limited,  
 Threemilestone Ind. Estate,  
 Truro, Cornwall, TR4 9LG, UK.  
 T +44 (0) 1872 277431  
 F +44 (0) 1872 222002  
 E sales@arcolresistors.com

[www.arcolresistors.com](http://www.arcolresistors.com)

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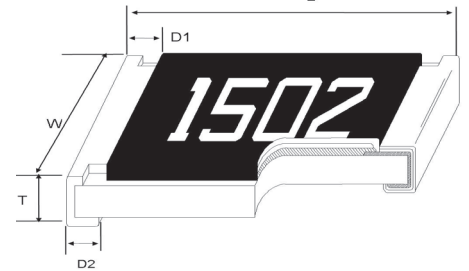
It is the responsibility of the customer to ensure that the component selected from our range is suitable for the intended application. If in doubt please ask ARCOL.

# ACPP Precision Surface Mount Passivated Resistors

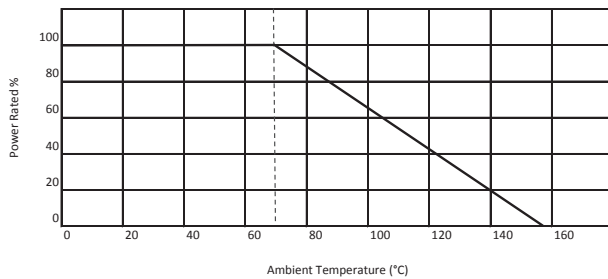


## Dimensions (mm)

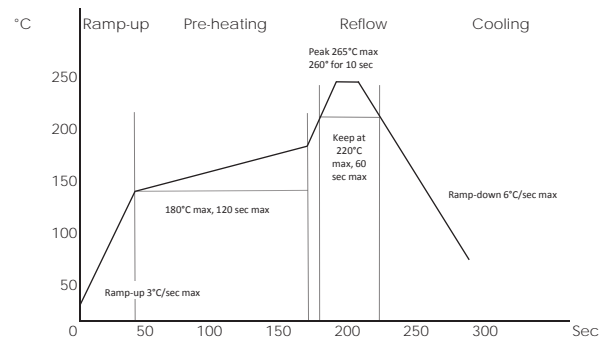
Series	L	W	T	D1	D2
ACPP0402	1.00 ± 0.05	0.50 ± 0.05	0.30 ± 0.05	0.20 ± 0.10	0.20 ± 0.10
ACPP0603	1.55 ± 0.10	0.80 ± 0.10	0.45 ± 0.10	0.30 ± 0.20	0.30 ± 0.20
ACPP0805	2.00 ± 0.15	1.25 ± 0.15	0.55 ± 0.10	0.30 ± 0.20	0.40 ± 0.20
ACPP1206	3.05 ± 0.15	1.55 ± 0.15	0.55 ± 0.10	0.42 ± 0.20	0.35 ± 0.20
ACPP2010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



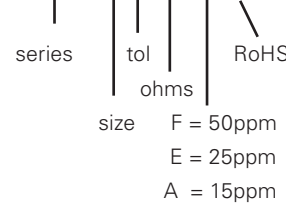
## ARCOL Ordering Procedure

Standard Resistor: Series, Size, Resistance Value, Tolerance, TCR  
 eg: ACPP0603 100K B 15PPM

## Ohmite Ordering Procedure

Standard Resistor: Series, Size, Resistance Value, Tolerance, TCR Code, RoHS compliant

i.e: ACPP0603B100KAE



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