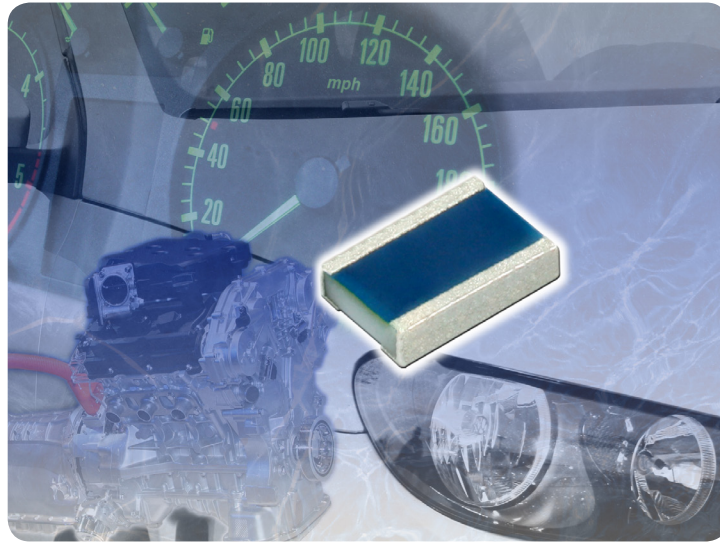


THIN FILM CHIP RESISTOR

MCW 0406 AT Professional and Precision

Professional and Precision Wide Terminal Thin Film Chip Resistor



KEY BENEFITS

- Size 0406 thin film chip resistor with wide side termination
- High power dissipation in small case size: - P_{70} up to 300 mW
- Extraordinary high-temperature cycling robustness
- Operating temperature up to 175 °C
- High long-term stability
- AEC-Q200 qualified (pending)
- Compliant to RoHS Directive 2011/65/EU

APPLICATIONS

- High-power and high-temperature applications
- Automotive and industrial applications

END PRODUCTS

- Automotive electronics: control units, braking systems, lighting
- Industrial electronics: energy management, power supply, measurement
- Telecommunication: base stations
- Consumer electronics: high-end audio, studio-technology
- High-end computer

RESOURCES

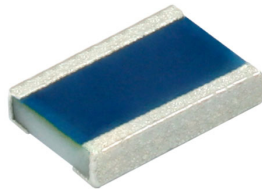
- Datasheet: MCW 0406 AT - Professional - www.vishay.com/doc?28796
- Datasheet: MCW 0406 AT - Precision - www.vishay.com/doc?28847
- For technical questions, contact: thinfilmttechsupport@vishay.com



THIN FILM CHIP RESISTOR

MCW 0406 AT Professional and Precision

Professional and Precision Wide Terminal Thin Film Chip Resistor



MCW 0406 AT Precision and Professional Wide Terminal Resistors are the perfect choice for most fields of modern professional power measurement electronics where reliability, stability, power dissipation, and robust design is of major concern.

Beside extremely high power ratings, the MCW 0406 AT is characterized by extraordinary temperature cycling robustness, verified through extensive testing.

The permissible power rating is specified with 250 mW (precision) or 300 mW (professional). Typical applications include power electronics in automotive and industrial appliances.

FEATURES

- Rated dissipation P_{70} up to 300 mW
- Superior temperature cycling robustness
- Operating temperature up to 175 °C
- AEC-Q200 qualified (pending)
- Compliant to RoHS Directive 2002/95/EC



RoHS
COMPLIANT

APPLICATIONS

- Automotive
- Industrial
- High power applications
- Replacement for larger case sizes

METRIC SIZE

INCH	0406
METRIC	RR 1016M

TECHNICAL SPECIFICATIONS

DESCRIPTION	MCW 0406 AT PROFESSIONAL	MCW 0406 AT PRECISION
Metric size	RR 1016M	
Resistance range	47 Ω to 100 k Ω	
Resistance tolerance	$\pm 1\%$; $\pm 0.5\%$	$\pm 0.1\%$
Temperature coefficient	± 50 ppm/K; ± 25 ppm/K	± 15 ppm/K; ± 25 ppm/K
Rated dissipation P_{70} ⁽¹⁾	0.3 W	0.25 W
Operating voltage, U_{max} AC/DC	50 V	
Permissible film temperature, v_f max. ⁽¹⁾	175 °C	155 °C
Operating temperature range	- 55 °C to + 175 °C	- 55 °C to + 155 °C
Insulation voltage	75 V	
	1 min; U_{ins}	75 V
	Continuous	75 V
Failure rate: FIT _{observed}	To be established	

Note

- ⁽¹⁾ Please refer to APPLICATION INFORMATION, please see www.vishay.com/doc?28796 (professional) or www.vishay.com/doc?28847 (precision).

Revision: 16-Jan-12

Resistors - With Wide Side Terminations