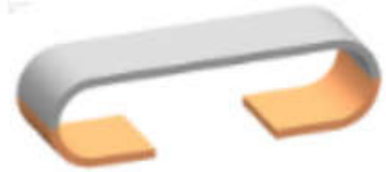


WPR Weld Precision Resistor

- CURRENT SENSOR FOR POWER HYBRID APPLICATIONS
- FREQUENCY CONVERTERS & POWER MODULES
- STANDARD PACKAGE SIZES 0311
- RoHS & REACH COMPLIANT MATTE TIN PLATED
- IDEAL FOR HIGH CURRENT APPLICATIONS FOR AUTOMOTIVE



POWER RATING

2W

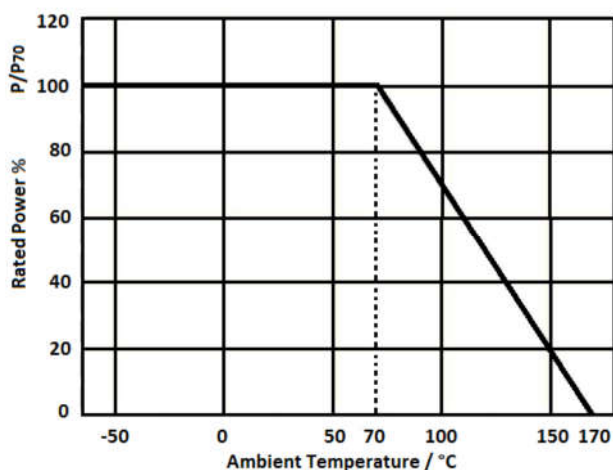
DIMENSIONS

STYLE		DIMENSIONS (mm)					
Series	Type	L	W	H	B	D	T
WPR03	0311	11.18 ± 0.38	3.18 ± 0.38	3.05 ± 0.76	4.83 ± 0.76	0.12 ± 0.10	2.36 ± 0.25

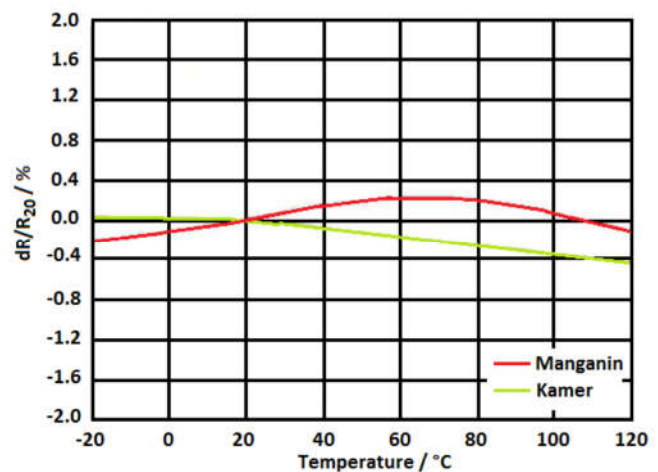
ELECTRICAL CHARACTERISTICS

Power Rating at 70°C	2W
STYLE	WPR03
Operating Temperature Range	-65°C ~ +170°C
Wattage in Free Air at 25°C	2.0W
Temperature Coefficient	±40ppm
Resistance Range	2mΩ ~ 50mΩ / 1% & 5%

POWER DERATING CURVE

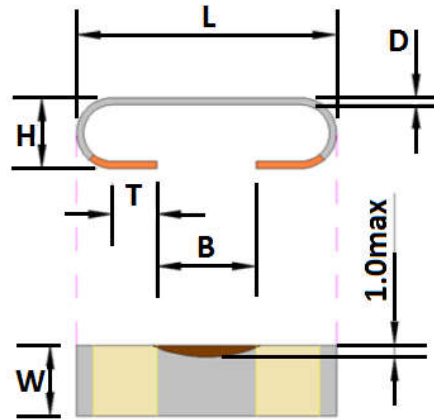


TCR DETATING

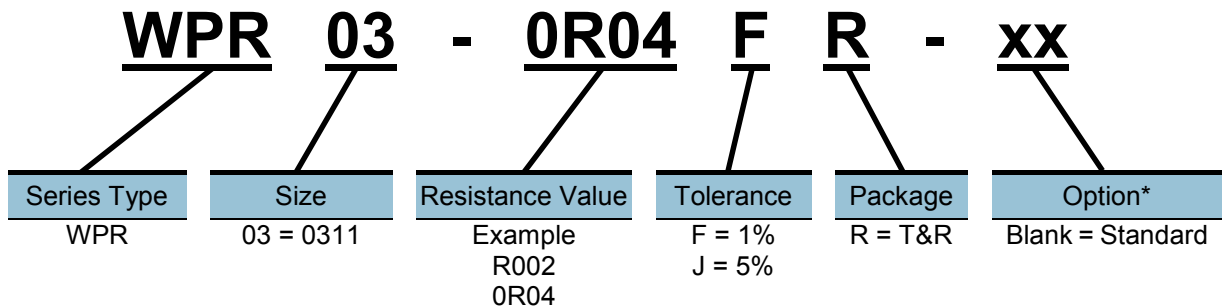


PERFORMANCE CHARACTERISTICS

PERFORMANCE TEST	REQUIREMENT	TEST METHOD
Short Time Overload	$\pm (1.0\% + 0.0005\Omega) \Delta R$	5 times rated power for 5 seconds
Bias Humidity	$\pm (1.0\% + 0.0005\Omega) \Delta R$	100 hrs 85°C/85% R.H. 10% bias
Mechanical Shock	$\pm (1.0\% + 0.0005\Omega) \Delta R$	100g's for 6ms, 5 pulses
Resistance to Soldering Heat	$\pm (1.0\% + 0.0005\Omega) \Delta R$	+260°C, 10 seconds to 12 seconds dwell, 25mm/s emergence
Moisture Resistance	$\pm (1.0\% + 0.0005\Omega) \Delta R$	MIL-STD-202 Method 106 0% power, 7a and 7b not required
High Temperature Exposure	$\pm (1.0\% + 0.0005\Omega) \Delta R$	At + 170°C for 1000 hrs
Low Temperature Storage	$\pm (1.0\% + 0.0005\Omega) \Delta R$	-65°C for 4 minutes
Load Life	$\pm (1.0\% + 0.0005\Omega) \Delta R$	+70°C for 1000 hrs with 1.5 hr on and 0.5 hr off
Vibration	$\pm (1.0\% + 0.0005\Omega) \Delta R$	Frequency varied 10Hz~200Hz in 1 minute, 3 directions, 12hr



PART NUMBER



STANDARD PACKAGING

TAPE 0311 2,000 pieces - 13" reel Standard

LEAD FREE
WPR Series parts are
RoHS & REACH Compliant