

TCR and Tolerance Ranges

Type	TCR (\pm ppm/ $^{\circ}$ C)	Tolerance (\pm %)				
		5	1	0.5	0.25	0.1
WRM0102	100	1R0-1M0				
	50			8R2-1M0		
	25	49R9-390K		49R9-200K	100R-82K	
	15	100R-56K				
WRM0204	100	R22-R91				
	50	1R0-5M1		10R-1M6	22R-332K	43R-332K
	25	4R7-500K		10R-500K	22R-402K	
	15			10R-221K	22R-221K	43R-221K
	10 ¹					
	5 ¹	100R-100K				
WRM0207	100	R22-R91				
	50	1R0-4M7		10R-1M6		
	25	10R-1M0		10R-680K	51R1-330K	100R-100K
	15			51R1-10K		100R-10K

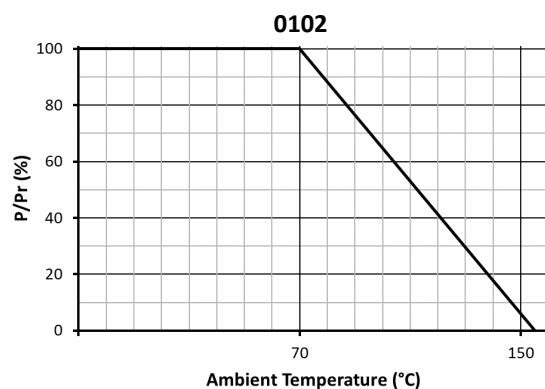
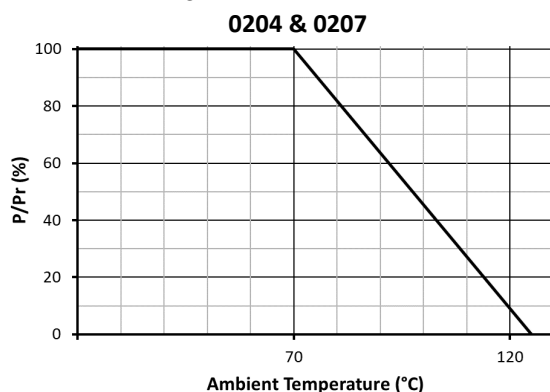
Notes: 1. The 5 & 10ppm/ $^{\circ}$ C TCRs are specified over the temperature range -10 to +85 $^{\circ}$ C.

Performance Data

Test	$\pm\Delta R/R$			
	0204 & 0207			0102
	75R-100K	10R < 75R or > 100K - 332K	< 10R or > 332K	All values
Short time overload	0.05% + R01	0.1% + R01	0.25% + R05	
Bending test				
Resistance to soldering heat				
Temperature rapid change				
Endurance (load life)	1000 hrs	0.15% + R05	0.3% + R05	0.5% + R05
	8000 hrs	0.3% + R05	0.6% + R05	1% + R05
	225,000 hrs	0.9% + R05	1.8% + R05	3% + R05
Climatic sequence	0.25% + R05	0.5% + R05	1% + R05	
Damp heat steady state				
Current noise	< 0.05 μ V/V	< 0.25 μ V/V	< 3 μ V/V	
Solderability	> 95% coverage			
Voltage coefficient	0 to -0.5ppm/V			
Voltage proof	No flashover or breakdown			

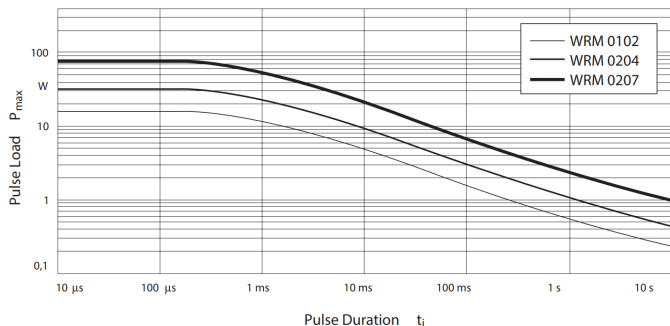
Notes: 1. Resistors to be mounted on a PC-board according to IEC 115-1, clause 4.27.1.
2. AEC-Q200 approval applies to all values up to and including 3M4 at TCRs above 5ppm/ $^{\circ}$ C and to zero-ohm jumpers.

Temperature Derating

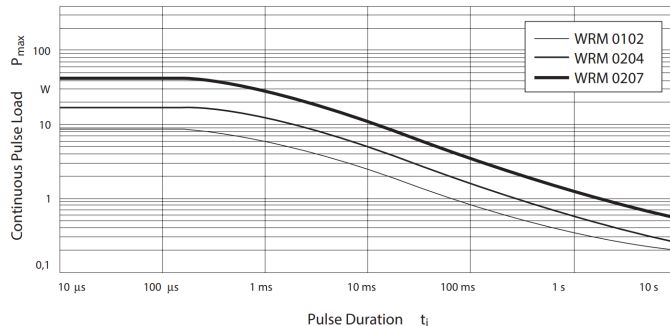


Pulse & Surge Performance

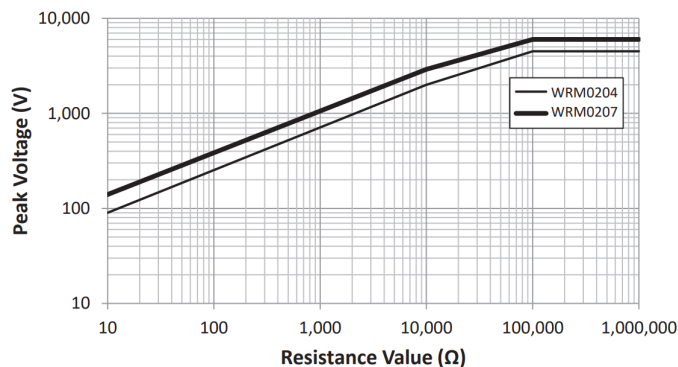
Single Pulse (mean power << rated power)



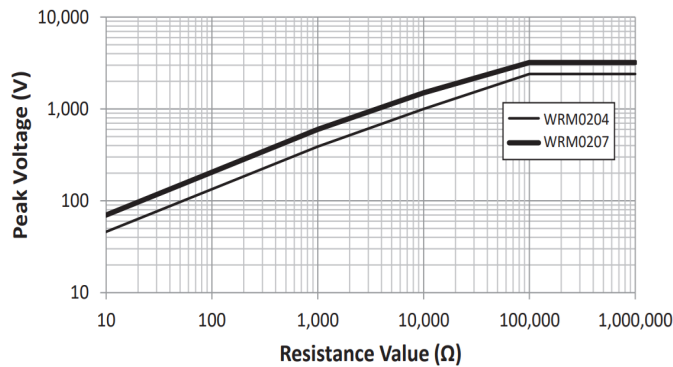
Continuous Pulses (mean power = rated power)



1.2/50μs Lightning Surge



10/700μs Lightning Surge

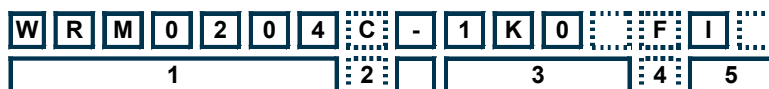


Packaging

WRM0102 and WRM0204 resistors are supplied in 8mm plastic tape on 7" reels. WRM0207 resistors are supplied in 12mm plastic tape on 7" reels. Packing complies with the requirements of IEC286-3.

Ordering Procedure

Examples: **WRM0204C-1K0FI** (0204, 50ppm/°C, 1 kilohm ±1%, Pb-free)
WRM0207-R000T2 (0207, zero-ohm jumper, Pb-free)



1	2	3	4	5
Type	TCR	Value	Tolerance	Packing
WRM0102	V = ±5ppm/°C	3/4 characters	B = ±0.1%	I 0102 3000 / 7" reel
WRM0204	T = ±10ppm/°C	R = ohms	C = ±0.25%	
WRM0207	Y = ±15ppm/°C	K = kilohms	D = ±0.5%	T2 ² 0207 2000 / 7" reel
	D = ±25ppm/°C	M = megohms	F = ±1%	
	C = ±50ppm/°C	R000 = Jumper	J = ±5%	
	Z = ±100ppm/°C		Omit for Jumper	
	Omit for Jumper			

Notes: 1 - High precision parts may be supplied on 1000-piece reels – please enquire.
 2 - Legacy part numbers used packing code "I" for WRM0207, which indicated 1500 / 7" reel.