

PWC Series

Performance Data

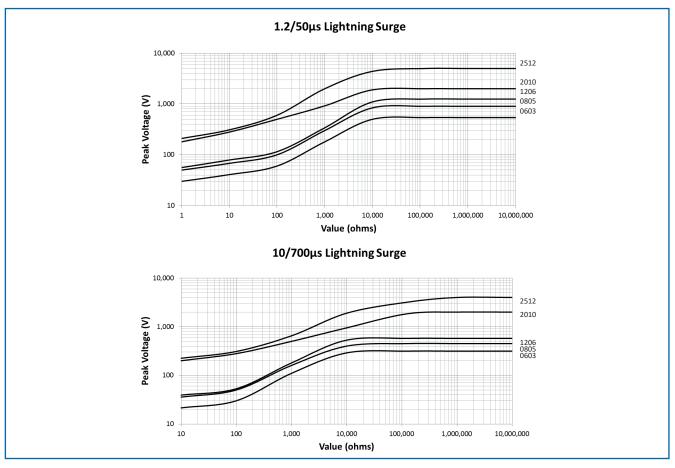
Size			Maximum	Typical
Load at rated power: 1000 hours at 70°C			1	0.25
Shelf life test: 12 months at room temperature			0.1	0.02
Derating from rated power at 70°C			Zero at 155°C	
Overload: 6.25 x rated power for 2 seconds			1	0.1
Dry heat: 1000 hours at 155°C			1	0.2
Long term damp heat			1	0.25
Temperature rapid change			0.25	0.05
Resistance to solder heat			0.25	0.05
Anti-sulphur grade (AS)	ASTM-B-809 (1000 hours, 50°C, 91-93% RH)	ΔR%	0.25	0.05
Sulphur-resistant grade (SR)	EIA-977 (750 hours, 105°C)	ΔR%	0.25	0.05
	ASTM-B-809 (1000 hours, 50°C, 91-93% RH)	ΔR%	0.25	0.05
	Modified ASTM-B-809 (1000 hours, 105°C, 85% RH)	ΔR%	1	0.25
Voltage proof			50	00

Note: A 0.01 Ohm addition to be added to the performance of all resistors <10 Ohms.

Pulse Performance Data

Lightning Surge

Lightning surge resistors are tested in accordance with IEC 60 115-1 using both 1.2/50µs and 10/700µs pulse shapes. 10 pulses are applied. The limit of acceptance is a shift in resistance of less than 1% from the initial value.



General Note

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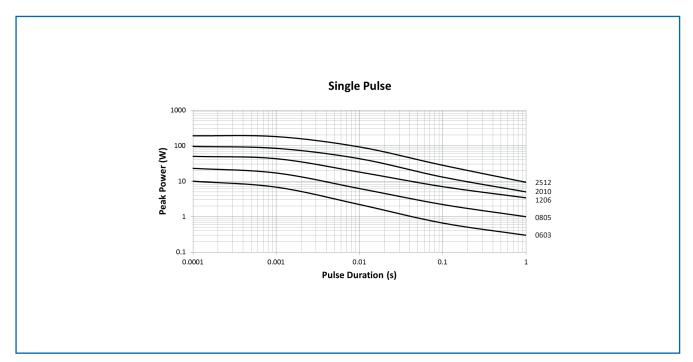
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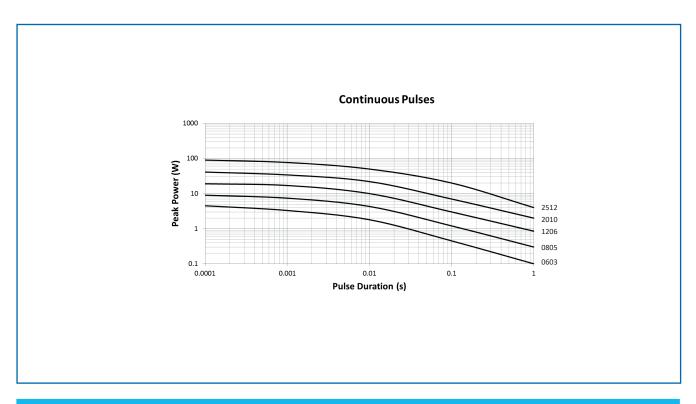
Single Impulse

The single impulse graph is the result of 50 impulses of rectangular shape applied at one minute intervals. The limit of acceptance was a shift in resistance of less than 1% from the initial value.



Continuous Load Due to Repetitive Pulses

The continuous load graph was obtained by applying repetitive rectangular pulses where the pulse period was adjusted so that the average power dissipated in the resistor was equal to its rated power at 70°C. Again the limit of acceptance was a shift in resistance of less than 1% from the initial value



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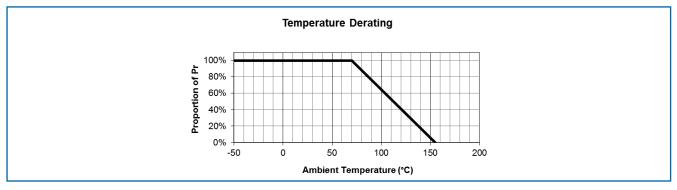
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PWC Series

Thermal Performance Data



Packaging

0603, 0805 and 1206 resistors are supplied on 8mm carrier tape and 2010 and 2512 resistors are supplied on 12mm carrier tape, all on 7 inch reels as per IEC 286-3.

Application Note

PWC resistors themselves can operate at a maximum temperature of 155°C. For soldered resistors, the joint temperature should not exceed 110°C. This condition is met when the stated power levels at 70°C and recommended pad and trace areas are used. Pad and trace area is defined as the total area of the solder pad plus all copper trace within two squares of the edge of the solder pad. Allowance should be made if smaller areas of copper are used.

A full Application Note on the PWC Series is available.

Ordering Procedure

This product has two valid part numbers:

European (Welwyn) Part Number: PWC2512-2K0JI (2512, 2 kilohms ±5%, Pb-free)



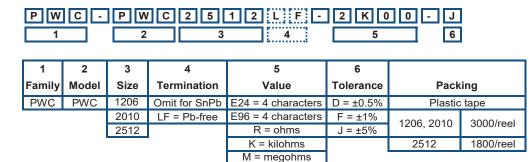
1	2	3	4	5	6		
Туре	Size	Sulphur Grade ¹	Value	Tolerance	Termination & Packing		
PWC	0603	Omit for standard	E24 = 3/4 characters	D = ±0.5%	I = Pb-free, Standard,		
	0805	AS = Anti-sulphur	E96 = 3/4 characters	F = ±1%	PB = SnPb, Standard		
	1206	SR = Sulphur Resistant	R = ohms	J = ±5%	0603	5000/reel	
	2010		K = kilohms		0805, 1206,	3000/reel	
	2512		M = megohms		2010 3000/ree		
		-			2512	1800/reel	
					T1 = Pb-free, 1K reel		

Note 1: For new designs requiring resistance to sulphur-bearing gas, SR grade is preferred.

USA (IRC) Part Number: PWC-PWC2512LF-2K00-J

(2512, 2 kilohms ±5%, Pb-free)

All sizes 1000/reel



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