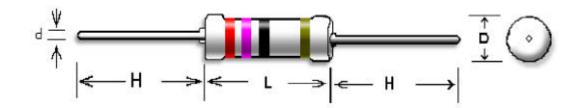


PPR - Pulse Protective Resistor High Power

Features

Applied in high-frequency, sharp-impulse circuits, such as missile detonators, triac switching circuits, etc, to protect active components, this series is capable of completely replacing carbon composition resistor. And comparing to carbon composition resistor, this series offers every better aspect of performance, specially without "sintering effect" caused by high surge impacts on carbon composition resistor showing a greatly decreased resistance value.



Dimensions:

Туре	Body Length (L, mm)	Body Diameter (D, mm)	Lead Wire Length (H , mm)	Lead Wire Diameter (d , mm)	Net Weight Per 1000Pcs
PPR300	15.5±1.0	5.5±0.5	30±3.0	0.8±0.03	1200 Grams
PPR400	19.0±1.0	6.0±0.5	30±3.0	0.8±0.03	1600 Grams
PPR500	24.0±1.0	8.0±0.5	30±3.0	0.8±0.03	3700 Grams

General Specifications:

Туре	Power Rating At 70	Max. Working Voltage	Max. Overload Voltage	Max. Permissible Surge Voltage at 1.2/10µs	Min. Resistance	Max. Resistance	Resistance Tolerance	Standard Resistance Values
PPR300	3W	350V	700V	20KV	1Ω	4.7MΩ	±5%	E-24
PPR400	4W	450V	800V	25KV	1Ω	4.7MΩ	±5%	E-24
PPR500	5W	550V	1100V	30KV	1Ω	4.7MΩ	±5%	E-24

Special sizes, values, and specifications not listed available on special order.

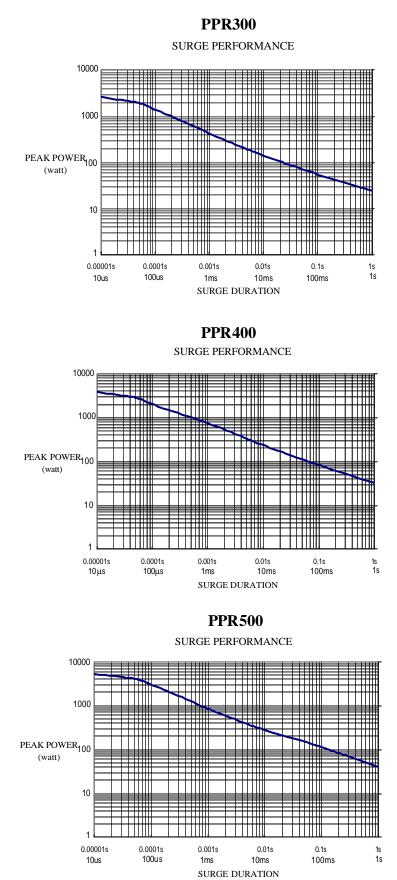
May 8, 2008

FIRST RESISTOR & CONDENSER CO., LTD. 9F, No. 233, Sec. 4, Sinyi Rd., Taipei 106, Taiwan Telephone : +886-2-27051878 Fax: +886-2-27036701 Email: QR@Firstohm.com.tw http://www.Firstohm.com.tw





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Performance Summary:

Characteristics		Limits		
Power Derating, Linear	100% @ <+70ºC, 0%	100% @ <+70°C, 0% @ +155°C		
Dielectric Withstanding Voltage, VAC or DC	1000	1000		
Temperature Coefficient, PPM /	1 Ω ~360K Ω	±750		
	$390K\Omega \sim 4.7M\Omega$	±1200		
Operating Temperature Range,	-55 ~ +155	-55 ~ +155		
Insulation Resistance, M Ω	>104	>104		

Technical Specifications:

Tests Characteristics	sts Characteristics Test Conditions			
Short Time Over Load	IEC 60115-1 4.13 5 seconds 2.5x rated voltage (not over max. overload voltage)	±(1%+0.05R)		
Load Life In Humidity	IEC 60115-1 4.24 56 days at 40°C and 93% relative humidity	±(5%+0.05R)		
Load Life 1,000 hours	IEC 60115-1 4.25.1 Rated load 1.5 hours ON, 0.5 hours OFF, at 70°C	±(5%+0.05R)		
Resistance To Soldering Heat	IEC 60115-1 4.18 10 seconds at 260°C solder bath temperature	±(1%+0.05R)		
Solderability	MIL-STD-202 Method 208 Solder area covered after 230 ± 5 C/5 ±0.5 seconds w/ flux applied	90% Min.		
Vibration	IEC 60115-1 4.22 Six hours in each parallel and axial direction w/ a simple harmonic motion having an amplitude of 0.75mm and 10 to 500 Hz.	±(1%+0.05R)		
Thermal Endurance	IEC 60115-1 4.25.3 1000 hours at 155°C without load	±(1%+0.05R)		
Thermal Shock	IEC 60115-1 4.19 -55°C 30minutes, +155°C 30minutes, 5 cycles	±(2%+0.05R)		
	Surge voltage = (2400 x P x R) DC P is power rating, R is resistance value, surge voltage is not more than	PPR300: 20KV		
Surge Test	listed at right. Surge spec = 1.2/50µs	PPR400: 25KV 5%		
	Period = 1 sec Number of surges = 50	PPR500: 30KV		

Ordering Information

Туре	Tolerance	Resistance Value	Packaging	Special Request (Optional)
PPR300 PPR400 PPR500	J (5%)	10K	TB (Tape/Box)	LV (Low value)

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