

Features

- Fuses safely at 220/240 mains voltage
- Resistance values as high as 2.2K ohms
- Flame-proof silicone coating
- Low TCR
- **RoHS compliant***

PWR4522 Fusible Power Resistors

General Introduction

The PWR4522A Series of axial leaded wirewound resistors in a flameproof silicone coating are designed to fuse under abnormal conditions such as sudden surges in voltage or circuit malfunctions. The resistor will fuse instantly upon the application of 220/240 mains voltage without flame or incandescent particles.

Electrical Characteristics

Characteristic	Model PWR4522			
Power	3 W			
Resistance Range	8.2 ohms to 2.2K ohms (E12)			
Tolerance	5 %			
Temperature Coefficient	±90 PPM/°C			
Operating Temperature Range	-55 °C to +350 °C			
Maximum Voltage	√P*R			
Fusing Point	16X Rated Power			
Fusing Time	45 Seconds Max.**			

Agency Approval



Resistor.	
	ceramic core
Lead Fra	meTinned copper
Housing .	Flameproof thermocoat

The resistor will fuse safely if 220/240 mains voltage is applied. The time to fuse depends



on the resistance value.



For Standard Values Used in Capacitors, Inductors, and Resistors, click here.

Power Derating Curve

4500 . 0 0000



How to Order

		FV	V N	452	~	4 3	ОП	20	0 /	A
Model PWR = Power	Resistor									
Package 4522 = Size (0	45 x 0.22 inches)									
Pin Style A = Axial Throu	gh-hole									
Version S = Safety Vers	sion (Fuses without flames or explosion when 220/240 mains voltage is applied)									
Resistance Value R<100 ohms R≥100 ohms	"R" represents decimal point First three digits are significant, fourth digit represents number of zeros to follow							J		
Resistance Toleran $J = \pm 5 \%$	nce									
Packaging										

A = Ammo Pack (750 pcs. per pack)

*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.



Applications

- White goods
- Inverters
- Lighting
- Metering

PWR4522 Fusible Power Resistors

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Environmental Characteristics

Test	Description	Specification
Dielectric Withstanding Voltage	Based on limiting voltage x 2 for 60 seconds	$\Delta R \pm (1 \% +0.05 \Omega)$ - No flashover, mechanical damage, arcing or insulation breakdown
Thermal Shock	-55 °C +0 °C/-3 °C to room temperature to +200 °C +3 °C/-0 °C, 5 cycles, with minimum 15 minutes at each cycle	±(2.0 % +0.05 Ω)
Short Time Overload	Five times rated power for 5 seconds	±(2.0 % +0.05 Ω)
Solderability	As per IEC 60068 – 2 -20	Must meet all requirements
Resistance to Solder Heat	Immersion in solder +260 °C to +270 °C for 10 ±0.5 seconds	±(0.5 % +0.05 Ω)
Dielectric Strength	Test voltage >2X maximum voltage for greater than 1 minute	±(2.0 % +0.05 Ω)
Insulation Resistance	Test voltage greater than 500 V rms for one minute	>1000 GΩ
Humidity	+40 °C at 93 % RH for 1000 hours no load +5 °C	±(5.0 % +0.05 Ω)
Load Life	Rated continuous voltage for 1000 hours 1 hour on and 0.5 hours off at a test temperature of $+70$ °C ± 2 °C	±(5.0 % +0.05 Ω)

Packaging Specifications



		Quantity			
Ammo Pack Box	Master Box	Ammo Pack	Master Box		
<u>275 x 100 x 110</u> (10.8 x 3.94 x 4.33)	<u>450 x 290 x 330</u> (17.72 x 11.42 x 12.99)	750	6000		

DIMENSIONS: $\frac{MM}{(INCHES)}$

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 75822-2K4
 90J56R
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 EP3WS47RJ
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 RWR81S12R4FRB12
 RWR81SR511FRB12

 RWR81SR619FRBSL
 RWR89S9310FPB12
 27J1K0
 93J62RE
 AC1000002208JAB00
 1HJ-25
 FSQ5WR47J
 25J39K
 25J5R0-B
 25W1D0

 272-303-JBW
 280-PRM5-150-RC
 CP0005270R0JE1491
 CPCC0510R00JE32
 CPCC051R000JB31
 CPW052K500JE143

 CPW05700R0JE143
 C1010RJL
 CA000210R00JE14
 VPR5F1500
 RS02B887R0FE73
 RWR74SR604FRB12
 RWR84S1001FRB12

 RWR84S20R0FSBSL
 RWR89S6190FSB12
 CPW055R000JB143
 ULW5-39R0JT075
 W31-R47JA1
 W31-R047JA1
 VP25K-120
 VC3D900

 ULW5-68RJT075
 65888-3R3
 CB5JB10R0
 CPW151K500JE313
 RWR80N3400FSB12
 RWR81S1000FRB12
 RWR81S1000FSB12

 RWR89S6R81FRB12
 RWR89N30R1FRB12
 RWR81S4R99FPB12
 RWR74S4R02FRRSL