WSZ7532



Vishay Dale

⊀oHS

HALOGEN

FREE

GREEN

(5-2008) Available

Leaded Wirewound Resistors, Surface Mount, Silicone or Cement Coated, High Power



FEATURES

- Low cost, high power (up to 3.75 W)
- All welded construction
- Ideal for pulsing application
- Ceramic core
- Available on tape and reel
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

Note

This datasheet provides information about parts that are RoHS-compliant and / or parts that are non RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details

STANDARD ELECTRICAL SPECIFICATIONS									
GLOBAL MODEL		POWER RATING P _{25 °C} W	RESISTANCE RANGE ⁽¹⁾ Ω TCR (-10 to -80) ppm/K ⁽²⁾ (CLASS 1)	RESISTANCE RANGE ⁽¹⁾ Ω TCR (100 to 180) ppm/K (CLASS 3)		RESISTANCE RANGE Ω TCR ± 30 ppm/°C		WEIGHT (typical) g	ENCAPS.
WSZ7532	7532	3.75	n/a	n/a	n/a	10 to 15K	1, 3	0.7	Silicone
W3Z7552	1332	5.75	n/a	n/a	1 to 9.99	10 to 15K	5, 10	0.7	Sincome

Notes

(1) Lower TCR or other power range on request. Resistance value to be selected for ± 10 % tolerance from E12 and for ± 5 % from E24

 $^{(2)}~\leq$ 1 $\Omega \leq$ 400 ppm/K

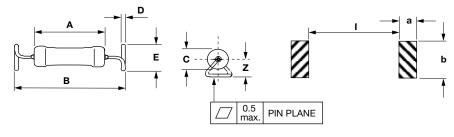
⁽³⁾ Power rating depends on the maximum temperature at the solder point, solder pad dimensions, the component placement density and the substrate material

GLOBAL PART NUMBER INFORMATION								
Global Part Numbering Example: WSZ75321K000JTA								
W S Z 7 5 3 2 1 K 0 0 0 J T A								
GLOBAL MODEL WSZ7532	VALUE \mathbf{R} = decimal \mathbf{K} = thousand 54R15 = 54.15 Ω 1K325 = 1325 Ω	F = $\pm 1.0 \%$ G = $\pm 2.0 \%$ H = $\pm 3.0 \%$ J = $\pm 5.0 \%$ K = $\pm 10 \%$	PACKAGING EA = lead (Pb)-free, tape / reel TA = tin / lead, tape / reel	SPECIAL (dash number) (up to 3 digits) From 1 to 999 as applicable				

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DIMENSIONS

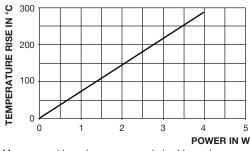


MODEL		DIMENSIONS in millimeters (inches)								
	Α		В	С	D	E	Z			
WSZ7532 14.27 ± 1.3 (0.562 ± 0.0			19.86 + 0.548 - 0.381 (0.782 + 0.021 - 0.015)	4.78 ± 0.8 (0.188 ± 0.031)	0.813 ± 0.051 (0.032 ± 0.002)	7.33 ± 1.6 (0.289 ± 0.062)	6.5 ± 1.12 (0.256 ± 0.044)			
MODEL		SOLDER PAD DIMENSIONS in millimeters (inches)								
WODEL			а	b		1				
WSZ7532		4.0 (0.157)	9.50 (0.374)		15.05 (0.593)					

TECHNICAL SPECIFICATIONS					
PARAMETER	UNIT	WSZ7532			
Temperature Coefficient	ppm/°C	See Standard Electrical Specifications table			
Operating Temperature Range	°C	-65 to +350			
Maximum Working Voltage	V	$(P \times R)^{1/2}$			
Terminal Strength	lb	10 minimum			

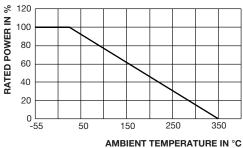
PERFORMANCE						
TEST	CONDITIONS OF TEST	TEST LIMITS				
Temperature Cycling	-55 °C to +125 °C, 5 cycles, 15 min at each extreme	\pm (2 % + 0.05 Ω) ΔR				
High Temperature Exposure	1000 h at + 250 °C	± (2 % + 0.05 Ω) ΔR				
Short Time Overload	5 x rated power for 5 s	\pm (2 % + 0.05 Ω) ΔR				
Shock, Specified Pulse	100 g's for 6 ms, 10 shocks	± (2 % + 0.05 Ω) Δ <i>R</i>				
Vibration, High Frequency	Frequency varied 10 Hz to 2000 Hz, 20 g peak, 2 directions 6 h each	± (2 % + 0.05 Ω) Δ <i>R</i>				
Load Life	2000 h at rated power, +25 °C, 1.5 h "ON", 0.5 h "OFF"	\pm (3 % + 0.05 Ω) ΔR				
Resistance to Soldering Heat	+260 °C solder, 10 s to 12 s dwell, 25 mm/s emergence	\pm (0.5 % + 0.05 Ω) Δ <i>R</i>				

TEMPERATURE RISE



Measurement based on recommended solder pads

DERATING



PACKAGING

PACKAGING							
MODEL		RE	EL				
WODEL	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE			
WSZ7532 ⁽¹⁾	32 mm / embossed plastic	330 mm / 13"	350	EA/TA			

Note

⁽¹⁾ Embossed carrier tape per EIA-481

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