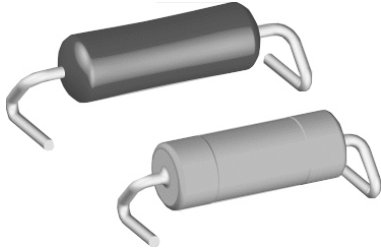


Wirewound Resistors, Surface Mount, Silicone or Cement Coated, High Power



FEATURES

- Low cost, high power (up to 3.75 W)
- All welded construction
- Ideal for pulsing application
- Ceramic core
- Available on tape and reel
- Lead (Pb)-free version is RoHS compliant
- Compliant to RoHS directive 2002/95/EC



STANDARD ELECTRICAL SPECIFICATIONS							
MODEL	POWER RATING P _{25 °C} W	RESISTANCE RANGE (1) Ω		RESISTANCE RANGE Ω		TOLERANCE ± %	ENCAPSULATION
		TCR - 10 ... - 80 ppm/K (2) (CLASS 1)	TCR 100 ... 180 ppm/K (CLASS 3)	TCR ± 50 ppm/°C	TCR ± 30 ppm/°C		
WSZ6720	1.8 (3)	1 to 510	-	-	-	1	Cement
		0.22 to 510	-	-	-	2	
		0.10 to 510	24 to 3.3k	-	-	5	
		0.10 to 510	1.8 to 3.3k	-	-	10	
WSZ7532	3.75	-	-	-	10 to 15k	1, 3	Silicone
		-	-	1 to 9.99	10 to 15k	5, 10	

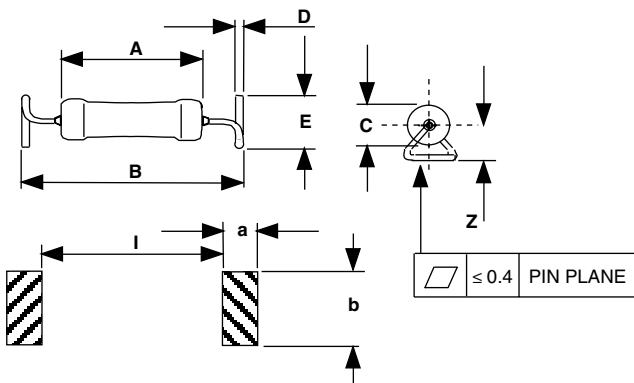
Notes

- (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) ≤ 1 Ω ≤ 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																	
Part Number: WSZ672011509KBM000																	
W	S	Z	6	7	2	0	1	1	5	0	9	K	B	M	0	0	0
GLOBAL MODEL	TCR/MATERIAL		VALUE			TOLERANCE CODE			PACKAGING			SPECIAL					
WSZ6720	1 = - 10 ... - 80 ppm/K WM 50 Class 1 3 = 100 ... 180 ppm/K WM 110 Class 3		3 digit value 1 digit multiplier MULTIPLIER 7 = *10 ⁻³ 8 = *10 ⁻² 9 = *10 ⁻¹ 0 = *10 ⁰ 1 = *10 ¹ 2 = *10 ² 3 = *10 ³			F = ± 1.0 % G = ± 2.0 % J = ± 5.0 % K = ± 10.0 %			BM = Lead (Pb)-free, tape/reel LX = Lead (Pb)-free, bulk			3 digits 000 = Standard					
Product Description: WSZ6720 WM 50 15 Ω 10 % BM																	
WSZ6720			WM 50			15 Ω			10 %			BM					
HISTORICAL MODEL			TCR/MATERIAL			VALUE			TOLERANCE CODE			PACKAGING					
Part Number: WSZ75321K000JTA																	
W	S	Z	7	5	3	2	1	K	0	0	0	J	T	A			
GLOBAL MODEL	VALUE		TOLERANCE CODE			PACKAGING			SPECIAL								
WSZ7532	R = Decimal K = Thousand 54R15 = 54.15 Ω 1K325 = 1325 Ω		F = ± 1.0 % G = ± 2.0 % H = ± 3.0 % J = ± 5.0 % K = ± 10 %			EA = Lead (Pb)-free, tape/reel EK = Lead (Pb)-free, bulk TA = Tin/lead, tape/reel BA = Tin/lead, bulk			(Dash number) (Up to 3 digits) From 1 to 999 as applicable								
Product Description: WSZ7532 1 kΩ 5 % TA																	
WSZ7532			1 kΩ			5 %			TA								
HISTORICAL MODEL			VALUE			TOLERANCE CODE			PACKAGING								

* Pb containing terminations are not RoHS compliant, exemptions may apply

** Please see document "Vishay Material Category Policy": www.vishay.com/doc?99902

DIMENSIONS


MODEL	DIMENSIONS in millimeters (inches)					
	A _{max.}	B	C _{max.}	D _{nom}	E	Z
WSZ6720	13.2 (0.512)	17 ± 0.5 (0.670)	4.8 (0.189)	0.8 (0.031)	5 ± 0.5 (0.20 ± 0.02)	3.6 ± 0.5 (0.142 ± 0.02)
WSZ7532	14.27 (0.562)	19.86 (0.782)	4.78 (0.188)	0.813 (0.032)	8.18 (0.322)	6.5 (0.256)

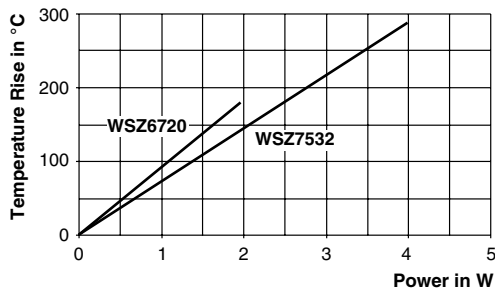
MODEL	SOLDER PAD DIMENSIONS in millimeters (inches)		
	a	b	l
WSZ6720	10 (0.394)	10 (0.394)	14.5 (0.57)
WSZ7532	4.0 (0.157)	9.50 (0.374)	15.05 (0.593)

TECHNICAL SPECIFICATIONS

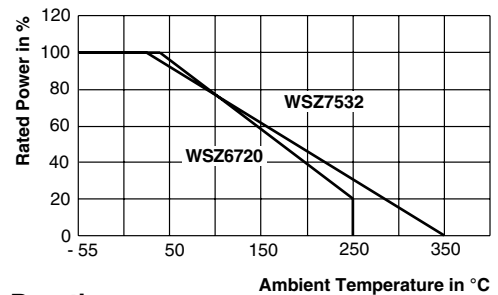
PARAMETER	UNIT	WSZ6720	WSZ7532
Operating Temperature Range	°C	- 55/+ 250	- 65/+ 350
Maximum Working Voltage	V	$(P \times R)^{1/2}$	$(P \times R)^{1/2}$
Weight (Typical)	g	0.6	0.7
Terminal Strength	lb	10 minimum	10 minimum

PERFORMANCE

TEST	CONDITIONS OF TEST	TEST LIMITS	
		WSZ6720	WSZ7532
Temperature Cycling	- 55 °C to + 125 °C, 5 cycles, 15 min at each extreme	± 3 % ΔR	± (2 % + 0.05 Ω) ΔR
High Temperature Exposure	1000 h at + 250 °C	± 3 % ΔR	± (2 % + 0.05 Ω) ΔR
Short Time Overload	5 x rated power for 5 s	± 1 % ΔR	± (2 % + 0.05 Ω) ΔR
Shock, Specified Pulse	100 g's for 6 ms, 10 shocks	± 1 % ΔR	± (0.2 % + 0.05 Ω) ΔR
Vibration, High Frequency	Frequency varied 10 Hz to 2000 Hz, 20 g peak, 2 directions 6 h each	± 1 % ΔR	± (0.2 % + 0.05 Ω) ΔR
Load Life	2000 h at rated power, + 25 °C, 1.5 h "ON", 0.5 h "OFF"	± 3 % ΔR	± (3 % + 0.05 Ω) ΔR
Resistance to Soldering Heat	+ 260 °C solder, 10 s to 12 s dwell, 25 mm/s emergence	± 1 % ΔR	± (0.5 % + 0.05 Ω) ΔR


Temperature Rise

Measurement based on recommended solder pads


Derating
PACKAGING

MODEL	REEL			
	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE
WSZ6720	24 mm	330 mm	1250	BM
WSZ7532 ⁽¹⁾	32 mm/embossed plastic	330 mm/13"	350	EA/TA

Note
⁽¹⁾ Embossed Carrier Tape per latest revision of EIA-481-3



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