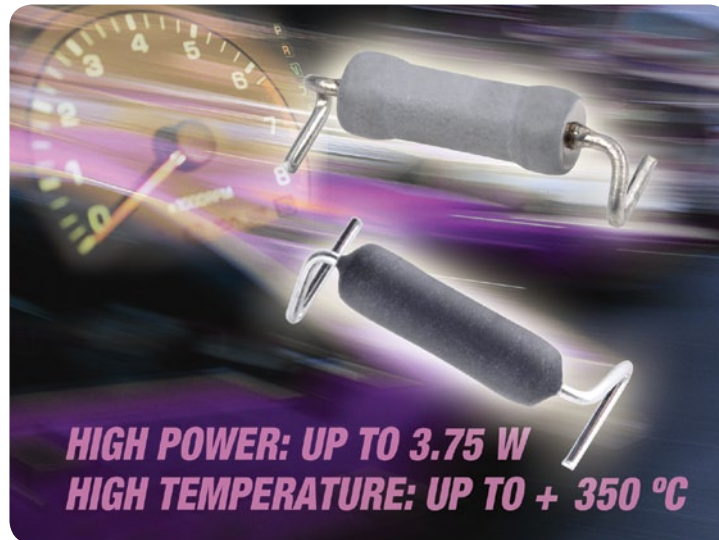


High-Power, Surface-Mount, Wirewound Resistors



KEY BENEFITS

- High-power surface-mount device: up to 3.75 W
- High temperature performance: up to + 350 °C
- All welded construction
- Available on tape and reel
- Can replace axial leaded components without increasing board temperature

APPLICATIONS

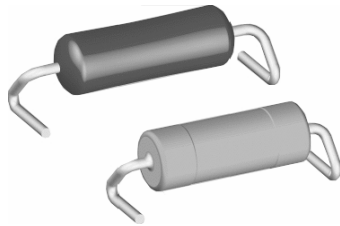
- Motor controls
- Pulsing applications
- Switching systems
- Home entertainment
- Telecommunications
- Satellite receivers

RESOURCES

- Datasheet: WSZ - <http://www.vishay.com/doc?30246>
- For technical questions contact ww2aresistors@vishay.com



High-Power, Surface-Mount, Wirewound Resistors



FEATURES

- Low cost, high power (up to 3.75 W)
- All welded construction
- Ideal for pulsing application
- Ceramic core
- Available on tape and reel
- AEC-Q200 qualified available ⁽¹⁾
- Compliant to RoHS Directive 2002/95/EC

Note

⁽¹⁾ Flame retardance test may not be applicable to some resistor technologies.

AUTOMOTIVE GRADE Available



RoHS* COMPLIANT
GREEN
(5-2008)** Available

STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	SIZE	POWER RATING $P_{25^{\circ}\text{C}}$ W	RESISTANCE RANGE Ω TCR - 10 ... - 80 ppm/K ⁽³⁾ (CLASS 1)	RESISTANCE RANGE Ω TCR 100 ... 180 ppm/K (CLASS 3)	RESISTANCE RANGE Ω TCR ± 50 ppm/ $^{\circ}\text{C}$	RESISTANCE RANGE Ω TCR ± 30 ppm/ $^{\circ}\text{C}$	TOLERANCE \pm %	WEIGHT (typical) g	ENCAPS.
WSZ6720	6720	1.8 ⁽⁴⁾	1 to 510	n/a	n/a	n/a	1	0.6	Cement
			0.22 to 510	n/a	n/a	n/a	2		
			0.10 to 510	24 to 3.3K	n/a	n/a	5		
			0.10 to 510	1.8 to 3.3K	n/a	n/a	10		
WSZ7532	7532	3.75	n/a	n/a	n/a	10 to 15K	1, 3	0.7	Silicone
			n/a	n/a	1 to 9.99	10 to 15K	5, 10		

Notes

⁽²⁾ Lower TCR or other power range on request. Resistance value to be selected for ± 10 % tolerance from E12 and for ± 5 % from E24.

⁽³⁾ $\leq 1 \Omega \leq 400$ ppm/K.

⁽⁴⁾ 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: **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 = $\times 10^{-3}$ 8 = $\times 10^{-2}$ 9 = $\times 10^{-1}$ 0 = $\times 10^0$ 1 = $\times 10^1$ 2 = $\times 10^2$ 3 = $\times 10^3$	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

Historical Part Numbering example: **WSZ6720 WM 50 15 Ω 10 % BM**

GLOBAL MODEL	TCR/MATERIAL	VALUE	TOLERANCE CODE	PACKAGING
WSZ6720	WM 50	15 Ω	10 %	BM
HISTORICAL MODEL	TCR/MATERIAL	VALUE	TOLERANCE CODE	PACKAGING

Global Part Numbering example: **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

Revision 17-Mar-11

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

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

Resistors - Wattage Ratings up to 3.75 W