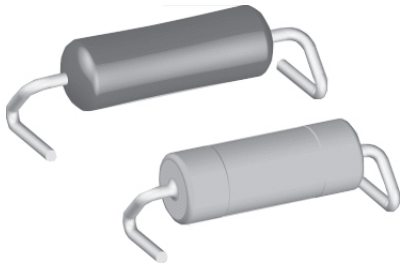


## Wirewound Resistors, Surface Mount, Silicone or Cement Coated, High Power



### FEATURES

- Low cost, high power
- All welded construction
- Ceramic core
- Available on tape and reel

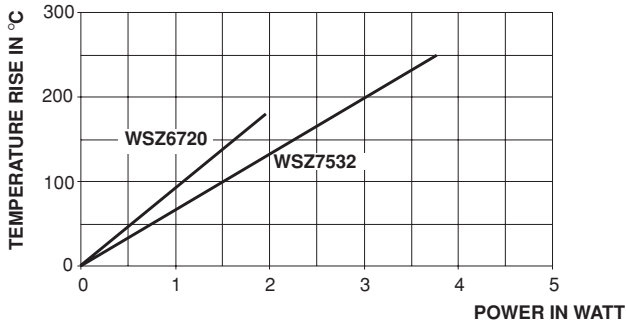
### STANDARD ELECTRICAL SPECIFICATIONS

MODEL	POWER RATING $P_{25^{\circ}\text{C}}$ W	TOLERANCE $\pm\%$	RESISTANCE RANGE E12/E24 <sup>1)</sup> $\Omega$		RESISTANCE RANGE $\Omega$		ENCAPSULATION
			TC-10...- 80ppm/K <sup>2)</sup> (CLASS 1)	TC 100... 180ppm/K (CLASS 3)	TC $\pm 50\text{ppm}/^{\circ}\text{C}$	TC $\pm 30\text{ppm}/^{\circ}\text{C}$	
WSZ6720	1.8	1	1R0 - 510R	—	—	—	Cement
		2	R22 - 510R	—	—	—	
		5	R10 - 510R	24R - 3K3	—	—	
		10	R10 - 510R	1R8 - 3K3	—	—	
WSZ7532	3.75	1, 3 5, 10	—	—	1R0 - 9R99	10R0 - 15K 10R0 - 15K	Silicone

NOTES: 1) Lower TC or other power range on request. 2)  $\leq 1\Omega$  TC  $\leq 400\text{ppm}/\text{K}$

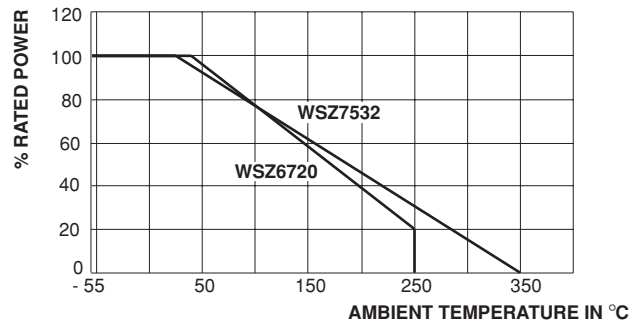
### TECHNICAL SPECIFICATIONS

PARAMETER	UNIT	WSZ6720	WSZ7532
Operating Temperature Range	$^{\circ}\text{C}$	- 55/+ 250	- 65/+ 350
Maximum Working Voltage	V	$(P \times R)^{1/2}$	$(P \times R)^{1/2}$
Weight (Typical)	g	1.0	0.7
Terminal Strength	lb	10 minimum	10 minimum



### Temperature Rise<sup>3)</sup>

3) Measurement based on recommended solder pads



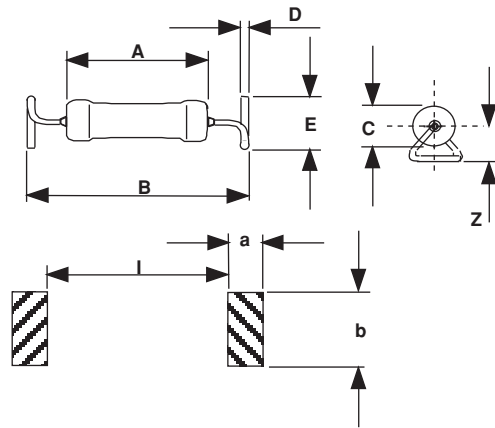
### Derating

### ORDERING INFORMATION

WSZ6720	3	100 $\Omega$	5%	BM
WSZ7532	—	10 $\Omega$	5%	R86
MODEL	CLASS	RESISTANCE VALUE $\Omega$	TOLERANCE $\pm\%$	PACKAGING For packaging see appropriate catalog or web page



**DIMENSIONS**



MODEL	DIMENSIONS in millimeters [inches]					
	A	B	C	D	E	Z
WSZ6720	13 [0.512]	17 [0.670]	4.8 [0.189]	0.8 [0.031]	5 [0.20]	3.6 [0.142]
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]

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

PACKAGING				
MODEL	REEL			
	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE
WSZ6720	24mm	330mm	1,250	BM
WSZ7532 <sup>4)</sup>	32mm/Embossed Plastic	330mm/13"	350	R86

<sup>4)</sup>Embossed Carrier Tape per latest revision of EIA-481-3