Vishay Dale



COMPLIANT

GREEN

(5-2008)

Power Metal Strip® Resistors (Extended Range), **Surface Mount**

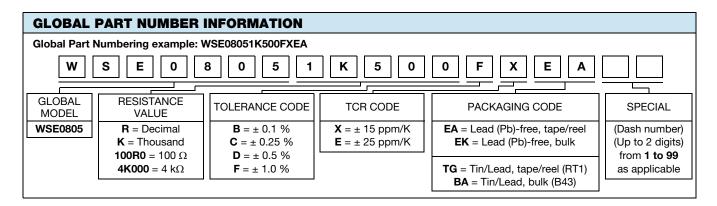


FEATURES

- 0805 size resistors with 0.25 W power rating
- Smaller footprint than a 1206 resistor (uses 40 % less board space)
- Superior overload and pulse handling capability
- SMD alternative for low power leaded wirewound resistors
- Low TCR 15 ppm/K
- Low noise: < 40 dB
- Voltage coefficient: < 0.00001 %/V (< 0.1 ppm/V)
- Very low inductance: < 0.08 μH
- Compliant to RoHS Directive 2002/95/EC

STANDARD ELECTRICAL SPECIFICATIONS							
GLOBAL MODEL	SIZE	POWER RATING P70 °C W	LIMITING ELEMENT VOLTAGE V TEMPERATURE COEFFICIENT ± ppm/K		TOLERANCE ± %	RESISTANCE RANGE Ω	E-SERIES
WSE0805	0805	0.25	$(P \times R)^{1/2}$	15, 25	0.1, 0.25, 0.5, 1.0	10 to 10K	96

TECHNICAL SPECIFICATIONS					
PARAMETER	UNIT	WSE0805			
Dielectric withstanding voltage	V _{AC}	200			
Insulation resistance	Ω	> 10 ⁹			
Operating temperature range	°C	- 65 to + 150			
Weight/1000 pieces	g	5.5			



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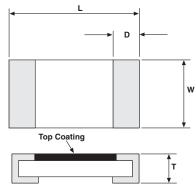
^{*} Pb containing terminations are not RoHS compliant, exemptions may apply
** Please see document "Vishay Material Category Policy": www.vishay.com/doc?99902



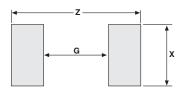
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DIMENSIONS



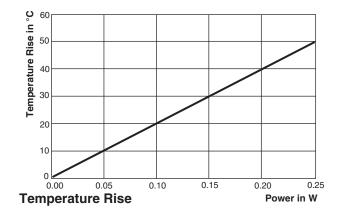
RECOMMENDED LAND PATTERN

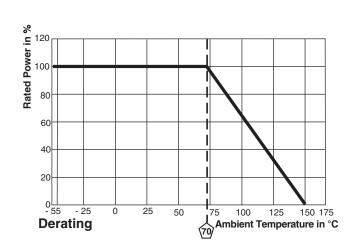


MODEL	DIMENSIONS in inches (millimeters)						
	D	L	W	Т	G ⁽¹⁾	X ⁽¹⁾	Z ⁽¹⁾
WSE0805	0.015 ± 0.005 (0.38 ± 0.13)	0.080 ± 0.005 (2.30 ± 0.13)	0.050 ± 0.005 (1.27 ± 0.13)	0.025 max. (0.64 max.)	0.028 ± 0.004 (0.70 ± 0.10)	0.050 ± 0.004 (1.27 ± 0.10)	0.122 ± 0.004 (3.103 ± 0.10)

Note

(1) Land pattern dimensions (G, X, Z) are per IPC-782A.





PERFORMANCE						
TEST	TEST LIMITS					
Thermal shock	- 65 °C to + 150 °C, 100 cycles, 15 min at each extreme	± 0.10 % ΔR				
Short time overload	5 x rated power for 5 s	± 0.10 % ΔR				
Low temperature operation	- 65 °C, 0.25 W for 45 min	± 0.05 % ΔR				
High temperature exposure	100 h at + 150 °C	± 0.10 % ΔR				
Moisture resistance	MIL-STD-202, method 106, 0 % power, 7b not required	± 0.10 % ΔR				
Load life	1000 h at 70 °C, 1.5 h "ON", 0.5 h "OFF"	± 0.05 % ΔR				
Resistance to bonding exposure	260 °C for 10 s	± 0.10 % ΔR				

PACKAGING						
MODEL	REEL					
WIODEL	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE		
WSE0805	8 mm/punched paper	178 mm/7"	5000	EA		

Note

• Embossed Carrier Tape per EIA-481.



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