Vishay Dale



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

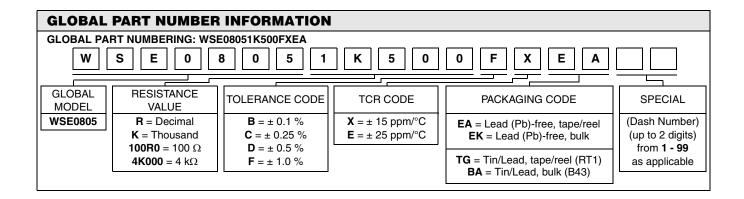


FEATURES

- 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/°C
- Low noise: < 40 dB
- Voltage Coefficient: < 0.00001 %/V (< 0.1 ppm/V)
- Very low inductance: < 0.08 μH

STANDARD ELECTRICAL SPECIFICATIONS						
MODEL	SIZE	POWER RATING P _{70 °C} W	LIMITING ELEMENT VOLTAGE	TEMPERATURE COEFFICIENT ppm/K	RESISTANCE RANGE Ω \pm 0.1 %, \pm 0.25 %, \pm 0.5 %, \pm 1 %	E-SERIES
WSE0805	0805	0.25	$(P \times R)^{1/2}$	15, 25	10 - 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			



For technical questions, contact: ww2bresistors@vishay.com

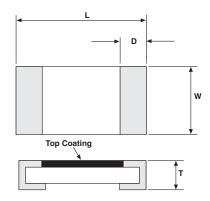
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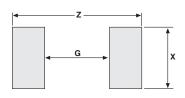
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DIMENSIONS



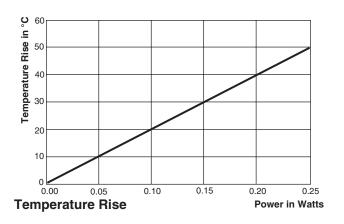
RECOMMENDED LAND PATTERN

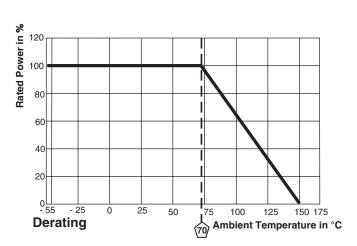


MODEL	DIMENSIONS in inches [millimeters]						
	D	L	W	Т	G ⁽¹⁾	X ⁽¹⁾	Z ⁽¹⁾
WSE0805	0.015 ± 0.005	0.080 ± 0.005	0.050 ± 0.005	0.025 max	0.028 ± 0.004	0.050 ± 0.004	0.122 ± 0.004
	$[0.38 \pm 0.13]$	$[2.30 \pm 0.13]$	$[1.27 \pm 0.13]$	[0.64 max]	$[0.70 \pm 0.10]$	$[1.27 \pm 0.10]$	$[3.103 \pm 0.10]$

Note

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





PERFORMANCE					
TEST	CONDITIONS OF 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				
WODEL	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE	
WSE0805	8 mm/Punched Paper	178 mm/7"	5000	EA	

Note

• Embossed Carrier Tape per EIA-481-1A



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