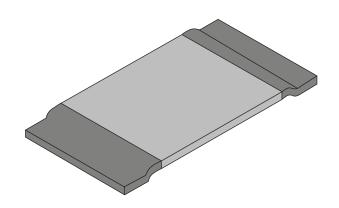
Vishay Dale



Power Metal Strip® Resistors, Low Value, Surface Mount

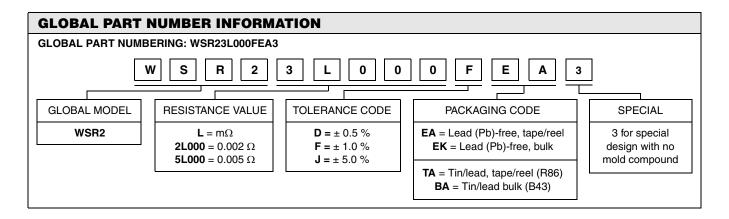


FEATURES

- Ideal for all types of current sensing, voltage division and pulse applications including switching and linear power supplies, instruments and power amplifiers
- Proprietary processing technique produces extremely low resistance values down to 0.002 Ω
- All welded construction
- Solid metal Manganese-Copper alloy resistive element with low TCR (< 20 ppm/°C)
- Solderable terminations
- Low Thermal EMF (< 3 μV/°C)
- Very low inductance 0.5 ηH to 5 ηH
- Excellent frequency response to 50 MHz

STANDARD ELECTRICAL SPECIFICATIONS				
MODEL POWER RATING P _{70 °C} W		TOLERANCE %	RESISTANCE RANGE Ω	
WSR2-3	3.0	1.0	0.002 to 0.005	

TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	WSR2-3		
Temperature Coefficient	ppm/°C	± 175		
Inductance	ηН	< 3		
Operating Temperature Range	°C	- 65 to + 170		
Maximum Working Voltage	V	$(P \times R)^{1/2}$		
Weight/1000 pieces	g	169		

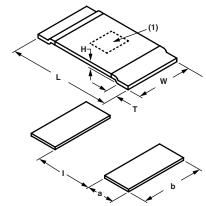


For technical questions, contact: ww2bresistors@vishay.com
Document Number: 30133
Revision: 19-Oct-07



Power Metal Strip® Resistors, Low Value, Surface Mount

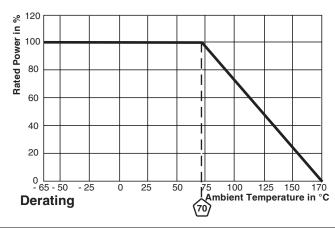
DIMENSIONS in inches [millimeters]



MODEL	DIMENSIONS				SOLDER PAD DIMENSIONS		
	L	W	Н	Т	а	b	I
WSR2-3	0.400 ± 0.010 [10.16 ± 0.254]	0.215 ± 0.010 [5.46 + 0.254]	0.029 ± 0.005 [0.737 ± 0.127]	0.075 ± 0.010 [1.91 ± 0.254]	0.100 [2.540]	0.235 [5.969]	0.240 [5.080]

Note

(1) 0.1" x 0.1" area in the center of the resistor will be flat and free of any trim cuts to facilitate pick & place nozzle.



PERFORMANCE				
TEST	CONDITIONS OF TEST	TEST LIMITS		
Thermal Shock	- 55 °C to + 150 °C, 1000 cycles, 15 min at each extreme	\pm (0.5 % + 0.0005 Ω) ΔR		
Short Time Overload	5 x rated power for 5 s for WSL2512 size and smaller	\pm (1.0 % + 0.0005 Ω) ΔR		
Low Temperature Operation	- 65 °C for 24 h	$\pm (0.5 \% + 0.0005 \Omega) \Delta R$		
High Temperature Exposure	1000 h at + 170 °C	\pm (1.0 % + 0.0005 Ω) ΔR		
Bias Humidity	+ 85 °C, 85 % RH, 10 % Bias, 1000 h	\pm (0.5 % + 0.0005 Ω) ΔR		
Mechanical Shock	100 g's for 6 ms, 5 pulses	\pm (0.5 % + 0.0005 Ω) ΔR		
Vibration	Frequency varied 10 to 2000 Hz in 1 min 3 directions, 12 h	$\pm (0.5 \% + 0.0005 \Omega) \Delta R$		
Load Life	1000 h at 70 °C, 1.5 h "ON", 0.5 h "OFF"	\pm (2.0 % + 0.0005 Ω) ΔR		

PACKAGING					
MODEL	REEL				
WODEL	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE	
WSR2-3	24 mm/Embossed Plastic	330 mm/13"	5000	EA	

Note

• Embossed Carrier Tape per EIA-481-2

Document Number: 30133 Revision: 19-Oct-07



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Document Number: 91000 Revision: 18-Jul-08