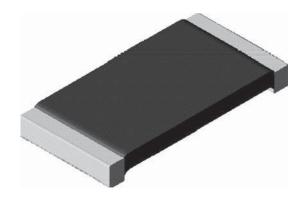
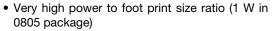


Vishay Dale

Power Metal Strip[®] Resistors, Very High Power (1 W), Low Value (down to 0.005 Ω), Surface Mount



FEATURES





 Ideal for all types of current sensing and pulse applications including switching and linear power supplies, instruments, power amplifiers and shunts



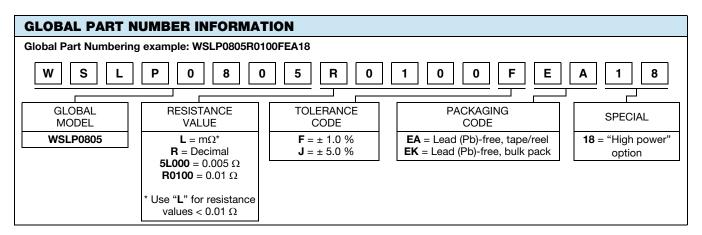
• Proprietary processing technique produces extremely low resistance values (down to 0.005 Ω)



- All welded construction
- Solid metal nickel-chrome or manganese- copper alloy resistive element with low TCR (< 20 ppm/°C)
- Very low inductance 0.5 nH to 5 nH
- Excellent frequency response to 50 MHz
- Low thermal EMF (< 3 μV/°C)
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

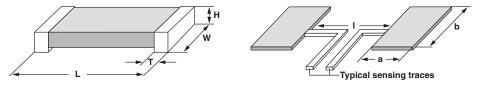
STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL	SIZE	POWER RATING P _{70°C} W	TOLERANCE		WEIGHT (typical) g/1000 pieces	
WSLP080518	0805	1.0	1.0, 5.0	0.005 to 0.01	4.8	

TECHNICAL SPECIFICATIONS					
PARAMETER	UNIT	RESISTOR CHARACTERISTICS			
Temperature coefficient	ppm/°C	\pm 110 for 5 m Ω to 6.9 m Ω,\pm 75 for 7 m Ω to 10 m Ω			
Element TCR	ppm/°C	< 20			
Operating temperature range	°C	-65 to +170			
Maximum working voltage	V	(P x R) ^{1/2}			



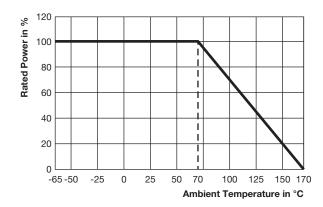


DIMENSIONS



MODEL	DIMENSIONS in inches (millimeters)				SOLDER PAD DIMENSIONS in inches (millimeters)		
	L	W	Н	Т	а	b	I
WSLP080518	0.080 ± 0.010 (2.03 ± 0.254)	0.050 ± 0.010 (1.27 ± 0.254)		0.015 ± 0.010 (0.381 ± 0.254)	0.040 (1.02)	0.050 (1.27)	0.020 (0.50)

DERATING



PERFORMANCE					
TEST	CONDITIONS OF TEST	TEST LIMITS			
Thermal shock	-55 °C to +150 °C, 1000 cycles, 15 min at each extreme	± 0.5 %			
Short time overload	5x rated power for 5 s	± 1.0 %			
Low temperature operation	-65 °C for 45 min	± 0.5 %			
High temperature exposure	1000 h at +170 °C	± 1.0 %			
Bias humidity	+85 °C, 85 % RH, 10 % bias, 1000 h	± 0.5 %			
Mechanical shock	100 g's for 6 ms, 5 pulses	± 0.5 %			
Vibration	Frequency varied 10 Hz to 2000 Hz in 1 min, 3 directions, 12 h	± 0.5 %			
Load life	1000 h at 70 °C, 1.5 h "ON", 0.5 h "OFF"	± 1.0 %			
Resistance to solder heat	+260 °C solder, 10 s to 12 s dwell, 25 mm/s emergence	± 0.5 %			
Moisture resistance	MIL-STD-202, method 106, 0 % power, 7b not required	± 0.5 %			

PACKAGING					
MODEL	REEL				
	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE	
WSLP080518	8 mm/punched paper	178 mm/7"	5000	EA	

Note

• Embossed Carrier Tape per EIA-481.



Legal Disclaimer Notice

Vishay

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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

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