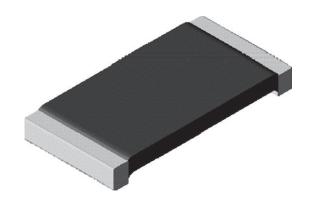
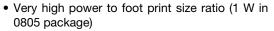


Vishay Dale

# Power Metal Strip<sup>®</sup> Resistors, Very High Power (1 W), Low Value (down to 0.005 $\Omega$ ), Surface Mount



#### **FEATURES**





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



HALOGEN

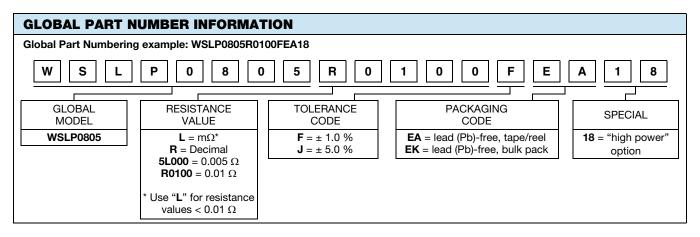
FREE

**GREEN** 

- Proprietary processing technique produces extremely low resistance values (down to  $0.005 \Omega$
- 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)</li>
- · Material categorization: for definitions of compliance please see www.vishav.com/doc?99912

STANDARD ELECTRICAL SPECIFICATIONS						
GLOBAL MODEL	SIZE	SIZE POWER RATING P70°C $\pm$ %		RESISTANCE VALUE RANGE Ω	WEIGHT (typical) g/1000 pieces	
WSLP080518	0805	1.0	1.0, 5.0	0.005 to 0.01	4.8	

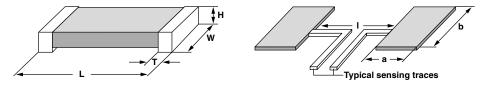
TECHNICAL SPECIFICATIONS				
PARAMETER UNIT RESISTOR CHARACTERISTICS		RESISTOR CHARACTERISTICS		
Temperature coefficient	ppm/°C	$\pm$ 110 for 5 m $\Omega$ to 6.9 m		
		$\pm$ 75 for 7 m $\Omega$ to 10 m $\Omega$		
Element TCR	ppm/°C	< 20		
Operating temperature range	°C	-65 to +170		
Maximum working voltage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



Revision: 16-Feb-17 Document Number: 30298

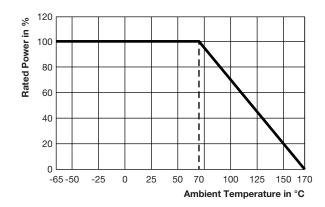


### **DIMENSIONS**



DIMENSIONS in inches (millimeters)  MODEL				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)	0.013 ± 0.010 (0.330 ± 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 24 h	± 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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