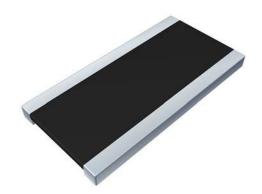
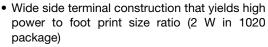




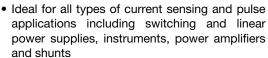
Power Metal Strip[®] Resistors, Wide Terminal, Low Value (0.003 Ω to 0.006 Ω), Surface Mount



FEATURES









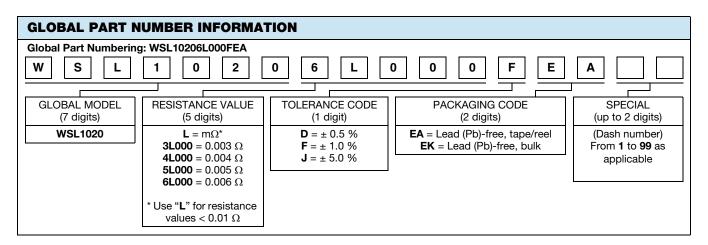
• Proprietary processing technique produces low resistance values (down to 0.003 Ω)



- All welded construction
- Solid metal nickel-chrome alloy resistive element with low TCR (< 20 ppm/°C over temperature range of 20 °C to 60 °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>

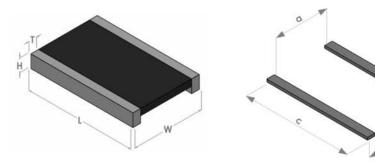
STANDARD ELECTRICAL SPECIFICATIONS					
GLOBAL MODEL	SIZE	POWER RATING P _{70 °C} W	TOLERANCE ± %	RESISTANCE VALUE RANGE Ω	WEIGHT (typical) g/1000 pieces
WSL1020	1020	2	0.5, 1.0, 5.0	3m to 6m	38.74

TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	RESISTOR CHARACTERISTICS		
Temperature coefficient - Resistor	ppm/°C	± 175		
Temperature coefficient - Element material	ppm/°C	< 20		
Operating temperature range	°C	- 65 to + 170		
Maximum working voltage	V	(P x R) ^{1/2}		



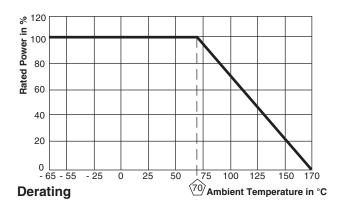


DIMENSIONS



MODEL	DIMENSIONS in inches (millimeters)			
MODEL	L	w	н	Т
WSL1020	0.200 ± 0.010 (5.08 ± 0.254)	0.100 ± 0.010 (2.54 ± 0.254)	0.025 ± 0.010 (0.635 ± 0.254)	0.015 ± 0.010 (0.381 ± 0.254)

MODEL	SOLDER PAD DIMENSIONS in inches (millimeters)			
MODEL	а	b	С	
WSL1020	0.039 (1.00)	0.138 (3.50)	0.222 (5.65)	



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

PACKAGING				
MODEL	REEL			
MODEL	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE
WSL1020	12 mm/embossed plastic	178 mm/7"	4000	EA

Note

• Embossed Carrier Tape per EIA-481-2.



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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