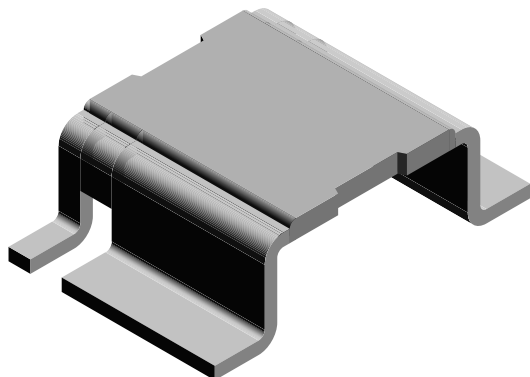


Power Metal Strip® Resistors, Low Value, High Power, Surface Mount



FEATURES

- High power to foot print size ratio
- Ideal for all types of current sensing, voltage division and pulse applications including switching and linear power supplies, instruments, power amplifiers and shunts
- Proprietary processing technique produces extremely low resistance values down to 0.0005 Ω
- All welded construction
- Solid metal Iron-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)



RoHS
COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS				
GLOBAL MODEL	POWER RATING $P_{70\text{ }^\circ\text{C}}$ W	TOLERANCE %	RESISTANCE VALUE AVAILABLE $m\Omega$	WEIGHT (Typical) g/1000 pieces
WSL4026	3.0	1.0	0.5, 2, 3, 5	420

Notes

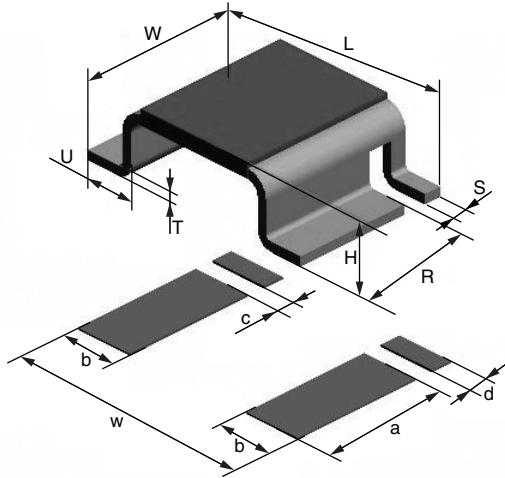
- Power rating depends on the max. temp. at the solder point, component placement density and the substrate material
- Part Marking: Model, value, tolerance, date code

TECHNICAL SPECIFICATIONS		
PARAMETER	UNIT	WSL RESISTOR CHARACTERISTICS
Temperature Coefficient	ppm/°C	± 75 over temperature of + 20 °C to + 60 °C
Operating Temperature Range	°C	- 65 to + 170
Maximum Working Voltage	V	$(P \times R)^{1/2}$

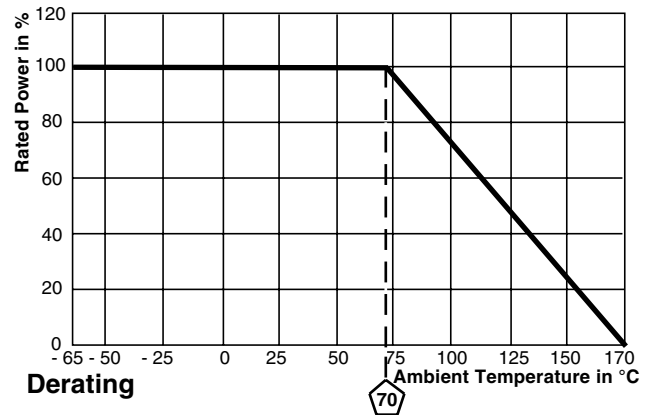
GLOBAL PART NUMBER INFORMATION																
GLOBAL PART NUMBERING: WSL4026L5000FEA																
W	S	L	4	0	2	6	L	5	0	0	0	F	E	A		
GLOBAL MODEL			RESISTANCE VALUE				TOLERANCE CODE		PACKAGING CODE				SPECIAL			
WSL4026			L = mΩ L5000 = 0.0005 Ω 2L000 = 0.002 Ω 3L000 = 0.003 Ω 5L000 = 0.005 Ω				F = ± 1.0 %		EA = Lead (Pb)-free, tape/reel EK = Lead (Pb)-free, bulk				(Dash number) (up to 2 digits) From 1 - 99 as applicable			

DIMENSIONS

MODEL	DIMENSIONS in inches [millimeters]						
	L	W	H	R	S	T	U
WSL4026	0.400 ± 0.008 [10.1 ± 0.2]	0.260 + 0.012/- 0.008 [6.6 + 0.3/- 0.2]	0.117 ± 0.008 [3.0 ± 0.2]	0.039 ± 0.004 [1.0 ± 0.1]	0.028 ± 0.004 [0.7 ± 0.1]	0.016 ± 0.002 [0.4 ± 0.05]	0.078 ± 0.004 [2.0 ± 0.1]



MODEL	SOLDER PAD DIMENSIONS in inches [millimeters]				
	a	b	c	d	w
WSL4026	0.220 [5.6]	0.096 [2.44]	0.035 [0.89]	0.035 [0.89]	0.420 [10.6]



PERFORMANCE		
TEST	CONDITIONS OF TEST	TEST LIMITS
Thermal Shock	- 55 °C to + 150 °C, 1000 cycles, 15 min at each extreme	± (0.5 % + 0.0005 Ω) ΔR
Short Time Overload	0.5, 2 and 3 mΩ - 5 x rated power for 5 s 5 mΩ - 3 x rated power for 5 s	± (0.5 % + 0.0005 Ω) ΔR
Low Temperature Operation	- 65 °C for 45 min	± (0.5 % + 0.0005 Ω) ΔR
High Temperature Exposure	1000 h at + 170 °C	± (1.0 % + 0.0005 Ω) ΔR
Bias Humidity	+ 85 °C, 85 % RH, 10 % Bias, 1000 h	± (0.5 % + 0.0005 Ω) ΔR
Mechanical Shock	100 g's for 6 ms, 5 pulses	± (0.5 % + 0.0005 Ω) ΔR
Vibration	Frequency varied 10 to 2000 Hz in 1 min, 3 directions, 12 h	± (0.5 % + 0.0005 Ω) ΔR
Load Life	1000 h at + 70 °C, 1.5 h "ON", 0.5 h "OFF"	± (1.0 % + 0.0005 Ω) ΔR
Resistance to Solder Heat	+ 260 °C Solder, 10 - 12 s dwell, 25 mm/s emergence	± (0.5 % + 0.0005 Ω) ΔR
Moisture Resistance	MIL-STD-202, Method 106, 0 % power, 7b not required	± (0.5 % + 0.0005 Ω) ΔR

PACKAGING				
MODEL	REEL			
	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE
WSL4026	16 mm/Embossed Plastic	330 mm/13"	1500	EA

Note

- Embossed Carrier Tape per EIA-481-2



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