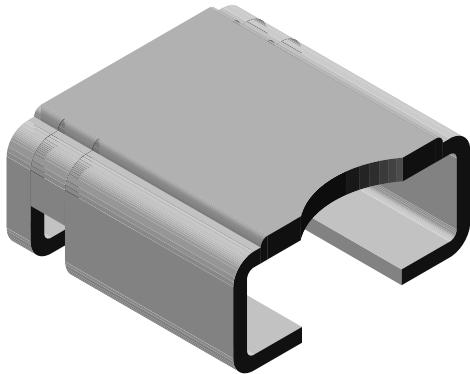


Power Metal Strip® Resistors, Low Value, High Power, Surface Mount



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 $0.0005\ \Omega$
- All welded construction
- Solid metal Iron-chrome or Manganese-copper alloy resistive element with low TCR ($< 20\ \text{ppm}/^\circ\text{C}$)
- Very low inductance $0.5\ \text{nH}$ to $5\ \text{nH}$
- Excellent frequency response to $50\ \text{MHz}$
- Low thermal EMF ($< 3\ \mu\text{V}/^\circ\text{C}$)



RoHS
COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	POWER RATING $P_{70\ ^\circ\text{C}}$ W	TOLERANCE %	RESISTANCE VALUE AVAILABLE mΩ	WEIGHT (Typical) g/1000 pieces
WSL2726	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/ $^\circ\text{C}$	± 75 over temperature of $+ 20\ ^\circ\text{C}$ to $+ 60\ ^\circ\text{C}$
Operating Temperature Range	$^\circ\text{C}$	- 65 to $+ 170$
Maximum Working Voltage	V	$(P \times R)^{1/2}$

GLOBAL PART NUMBER INFORMATION

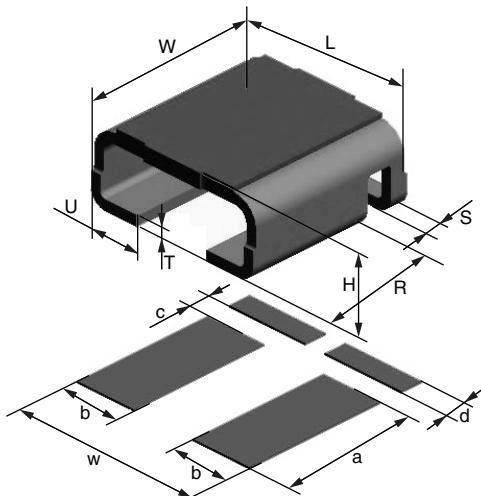
GLOBAL PART NUMBERING: WSL2726L5000FEA



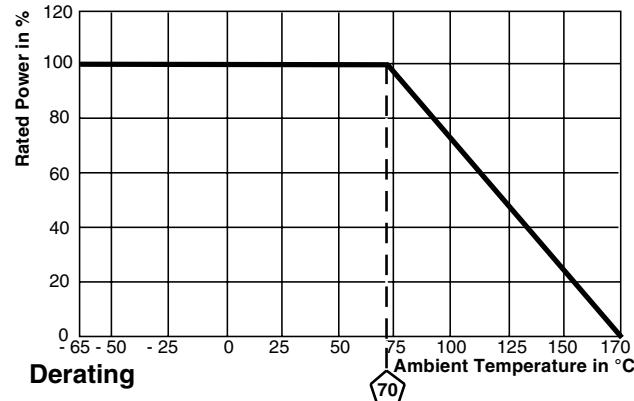
GLOBAL MODEL	RESISTANCE VALUE	TOLERANCE CODE	PACKAGING CODE	SPECIAL
WSL2726	$L = \text{m}\Omega$ $L5000 = 0.0005\ \Omega$ $2L000 = 0.002\ \Omega$ $3L000 = 0.003\ \Omega$ $5L000 = 0.005\ \Omega$	$F = \pm 1.0\ \%$	EA = Lead (Pb)-free, Tape/Reel EK = Lead (Pb)-free, Bulk	(Dash number) (up to 2 digits) From 1 - 99 as applicable

DIMENSIONS

MODEL	DIMENSIONS in inches [millimeters]						
	L	W	H	R	S	T	U
WSL2726	0.272 ± 0.008 [6.9 ± 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
WSL2726	0.220 [5.6]	0.096 [2.44]	0.035 [0.89]	0.035 [0.89]	0.290 [7.4]


PERFORMANCE

TEST	CONDITIONS OF TEST	TEST LIMITS
Thermal Shock	- 55 °C to + 150 °C, 1000 cycles, 15 minutes at each extreme	± (0.5 % + 0.0005 Ω) ΔR
Short Time Overload	5 x rated power for 5 seconds for WSL2512 size and smaller	± (0.5 % + 0.0005 Ω) ΔR
Low Temperature Operation	- 65 °C for 45 minutes	± (0.5 % + 0.0005 Ω) ΔR
High Temperature Exposure	1000 hours at + 170 °C	± (1.0 % + 0.0005 Ω) ΔR
Bias Humidity	+ 85 °C, 85 % RH, 10 % Bias, 1000 hours	± (0.5 % + 0.0005 Ω) ΔR
Mechanical Shock	100 g's for 6 milliseconds, 5 pulses	± (0.5 % + 0.0005 Ω) ΔR
Vibration	Frequency varied 10 to 2000 Hz in 1 minute, 3 directions, 12 hours	± (0.5 % + 0.0005 Ω) ΔR
Load Life	1000 hours at + 70 °C, 1.5 hours "ON", 0.5 hours "OFF"	± (1.0 % + 0.0005 Ω) ΔR
Resistance to Solder Heat	+ 260 °C Solder, 10 - 12 second dwell, 25 mm/second 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
WSL2726	16 mm/Embossed Plastic	330 mm/13"	1500	EA

Note:

- Embossed Carrier Tape per EIA-481-2



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