查询WSL3921_07供应商 WSL3921 and WSL5931

Vishay Dale

Power Metal Strip[®] Resistors, Low Value (down to 0.0002 Ω), Surface Mount

FEATURES

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



VISHA

- Proprietary processing technique produces extremely low resistance values, down to 0.0002 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)
- 100 % lead (Pb)-free and RoHS compliant

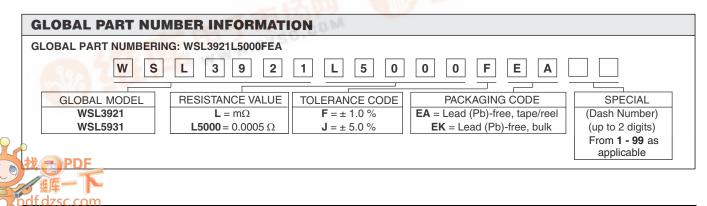
STANDARD	ELECTRICAL	SPECIFICATIONS
• • • • • • • • • • • • • • • •		

GLOBAL MODEL	POWER RATING P _{70 °C} W	TOLERANCE %	RESISTANCE VALUES AVAILABLE mΩ	WEIGHT (typical) g/1000 pieces
WSL3921	3.0	1.0 and 5.0	0.3, 0.5, 1, 2, 3, 4	281
WSL5931	5.0	1.0 and 5.0	0.2, 0.3, 0.5, 1, 2, 3	398

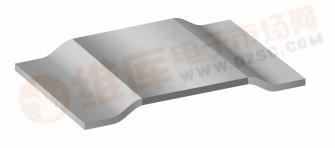
Note

· Part Marking: no part marking on these parts

TECHNICAL SPECIFICATIONS			
PARAMETER	UNIT	WSL RESISTOR CHARACTERISTICS	
Temperature Coefficient	ppm/°C	\pm 225 for 0.2 m Ω , \pm 175 for 0.3 m Ω and 0.5 m Ω , \pm 75 for 1 m Ω to 4 m Ω	
Operating Temperature Range	°C	- 65 to + 170	
Maximum Working Voltage	V	(P x R) ^{1/2}	



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捷多邦,专业PCB打样工厂,24小时加急出<u>货</u>

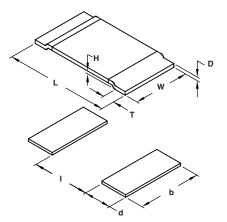


WSL3921 and WSL5931

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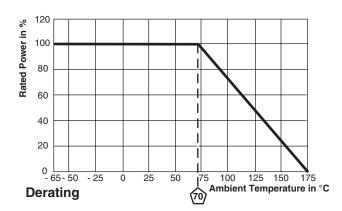
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DIMENSIONS



MODEL	DIMENSIONS in inches [millimeters]			
MODEL	L	w	Н	Т
WSL3921	0.394 ± 0.010	0.205 ± 0.010 [5.20 ± 0.254]		$\begin{array}{c} 0.080 \pm 0.010 \\ [2.00 \pm 0.254] \end{array}$
WSL5931	0.591 ± 0.010	0.305 ± 0.010 [7.75 ± 0.254]	0.020 [0.5]	$\begin{array}{c} 0.157 \pm 0.010 \\ [4.00 \pm 0.254] \end{array}$

MODEL	SOLDER PAD DIMENSIONS in inches [millimeters]			
MODEL	d	b	I	
WSL3921	0.106 ± 0.010	0.244 ± 0.010	0.220 ± 0.005	
	[2.70 ± 0.254]	[6.20 ± 0.254]	[5.60 ± 0.13]	
WSL5931	0.205 ± 0.010	0.344 ± 0.010	0.220 ± 0.005	
	[5.20 ± 0.254]	[8.75 ± 0.254]	[5.60 ± 0.13]	



GLOBAL MODEL	RESISTANCE VALUE	"D" THICKNESS	ELEMENT MATERIAL
WSL3921	0.3	0.0510	Mn-Cu
WSL3921	0.5	0.0300	Mn-Cu
WSL3921	1.0	0.0150	Mn-Cu
WSL3921	2.0	0.0270	Fe-Cr
WSL3921	3.0	0.0170	Fe-Cr
WSL3921	4.0	0.0130	Fe-Cr
WSL5931	0.2	0.0485	Mn-Cu
WSL5931	0.3	0.0300	Mn-Cu
WSL5931	0.5	0.0180	Mn-Cu
WSL5931	1.0	0.0330	Fe-Cr
WSL5931	2.0	0.0155	Fe-Cr
WSL5931	3.0	0.0105	Fe-Cr

PERFORMANCE			
TEST	CONDITIONS OF TEST	TEST LIMITS	
Thermal Shock	- 55 °C to + 150 °C, 1000 cycles, 15 min at each extreme	± (1.0 % + 0.0005 Ω) Δ <i>R</i>	
Short Time Overload	5 x rated power for 5 s	\pm (0.5 % + 0.0005 Ω) Δ <i>R</i>	
Low Temperature Storage	- 65 °C for 45 min	\pm (0.5 % + 0.0005 Ω) Δ <i>R</i>	
High Temperature Exposure	1000 h at + 175 °C	\pm (1.0 % + 0.0005 Ω) Δ <i>R</i>	
Bias Humidity	+ 85 °C, 85 % RH, 10 % Bias, 1000 h	\pm (0.5 % + 0.0005 Ω) Δ <i>R</i>	
Mechanical Shock	100 g's for 6 ms, 5 pulses	\pm (0.5 % + 0.0005 Ω) Δ <i>R</i>	
Vibration	Frequency varied 10 to 2000 Hz in 1 min, 3 directions, 12 h	\pm (0.5 % + 0.0005 Ω) Δ <i>R</i>	
Load Life	1000 h at + 70 °C, 1.5 h "ON", 0.5 h "OFF"	\pm (1.0 % + 0.0005 Ω) Δ <i>R</i>	
Resistance to Solder Heat	+ 260 °C Solder, 10 - 12 s dwell, 25 mm/s emergence	\pm (0.5 % + 0.0005 Ω) ΔR	
Moisture Resistance	MIL-STD-202, Method 106, 0 % power, 7a and 7b not required	\pm (0.5 % + 0.0005 Ω) Δ <i>R</i>	

PACKAGING

FAORAGING						
MODEL		REEL				
	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE		
WSL3921	16 mm/Embossed Plastic	330 mm/13"	3000	EA		
WSL5931	16 mm/Embossed Plastic	330 mm/13"	1500	EA		
NL 1						

Note

Embossed carrier tape per EIA-481-1A



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