

Power Metal Strip[®] Resistors, High Power, Surface Mount, 4-Terminal



FEATURES

- 4-terminal design
- Ideal for all types of current sensing, voltage division and pulse applications
- Proprietary processing technique produces extremely low resistance values
- Durable with all-welded construction
- All welded construction
- Solid metal nickel-chrome or manganese-copper resistive element with low TCR (< 20 ppm/°C)
- Low thermal EMF (< 3 μV/°C)
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



STANDARD ELECTRICAL SPECIFICATIONS							
GLOBAL MODEL	SIZE	POWER RATING $P_{70^{\circ}\text{C}}$ W	RESISTANCE VALUE RANGE Ω				WEIGHT (typical) g/1000 pieces
			Tol. ± 0.1 %	Tol. ± 0.25 %	Tol. ± 0.5 %	Tol. ± 1.0 %	
WSK1206	1206	0.25	0.04 to 0.05	0.02 to 0.05	0.01 to 0.05	0.01 to 0.05	16

Notes

- Part marking: due to resistor size limitation, parts will be marked with only the resistance value.
- Resistance values are available per WSL decade table (www.vishay.com/doc?30117).

TECHNICAL SPECIFICATIONS		
PARAMETER	UNIT	RESISTOR CHARACTERISTICS
Component temperature coefficient (including terminal) ⁽¹⁾	ppm/°C	± 35
Element TCR ⁽²⁾	ppm/°C	< 20
Operating temperature range	°C	-65 to +170
Maximum working voltage ⁽³⁾	V	$(P \times R)^{1/2}$

Notes

- (1) Component TCR - total TCR that includes the TCR effects of the resistor element and the copper terminal.
- (2) Element TCR - only applies to the alloy used for the resistor element; refer to item 1 in the construction illustration on the following page.
- (3) Maximum working voltage - the WSL is not voltage sensitive, but is limited by power / energy dissipation and is also not ESD sensitive.

GLOBAL PART NUMBER INFORMATION																
Global Part Numbering example: WSK1206R0150FEA																
W	S	K	1	2	0	6	R	0	1	5	0	F	E	A		
GLOBAL MODEL		RESISTANCE VALUE			TOLERANCE CODE			PACKAGING CODE ⁽¹⁾				SPECIAL				
WSK1206		R = decimal R0100 = 0.01 Ω			B = ± 0.1 % C = ± 0.25 % D = ± 0.5 % F = ± 1.0 %			EA = lead (Pb)-free, tape / reel EK = lead (Pb)-free, bulk				(Dash number) (up to 2 digits) From 1 to 99 as applicable				

Note

⁽¹⁾ Packaging code: EB (lead (Pb)-free) and TB (tin / lead) are non-standard packaging codes designating 1000 piece reels. These non-standard packaging codes are identical to our standard EA (lead (Pb)-free) and TA (tin / lead), except that they have a package quantity of 1000 pieces.

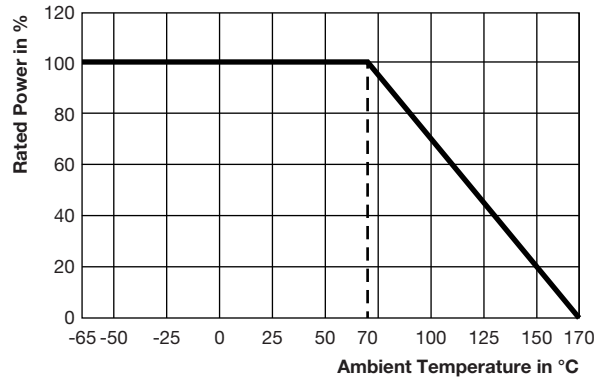
DIMENSIONS


MODEL	DIMENSIONS in inches (millimeters)					
	L	W	H	T	A	B
WSK1206	0.126 ± 0.010 (3.20 ± 0.254)	0.063 ± 0.010 (1.60 ± 0.254)	0.025 ± 0.010 (0.635 ± 0.254)	0.020 ± 0.010 (0.508 ± 0.254)	0.023 ± 0.010 (0.584 ± 0.254)	0.018 ± 0.010 (0.457 ± 0.254)

MODEL	SOLDER PAD DIMENSIONS in inches (millimeters)				
	a	b	c	d	l
WSK1206	0.040 (1.01)	0.070 (1.778)	0.030 (0.762)	0.01 (0.254)	0.070 (1.778)



DERATING



PERFORMANCE		
TEST	CONDITIONS OF TEST	TEST LIMITS
Thermal shock	-55 °C to +150 °C, 1000 cycles, 15 min at each extreme	± (0.5 %) ΔR
Short time overload	5x rated power for 5 s	± (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			
	TAPE WIDTH	DIAMETER	PIECES/REEL	CODE
WSK1206	8 mm/embossed plastic	178 mm/7"	4000	EA

Notes

- Embossed carrier tape per EIA-481.
- Wirewound, Metal Film, and Power Metal Strip® Packaging (www.vishay.com/doc?20051).



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