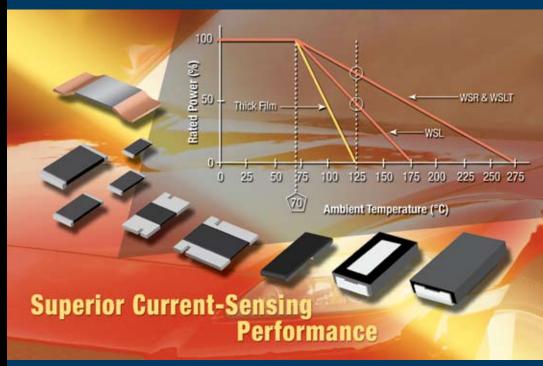


VISHAY INTERTECHNOLOGY, INC.



POWER METAL STRIP® SURFACE-MOUNT RESISTORS

For Commercial Applications

KEY BENEFITS

- Wide range of package sizes (0603 to 5931)
- Wide resistance range (0.0003 Ω to 1 Ω)
- High temperature performance (up to 275 °C)
- Tight tolerances (down to ±0.5 %)
- Low temperature coefficients (down to ±30 ppm/°C)
- Excellent overload capability (equivalent to wirewound)



POWER METAL STRIP® SURFACE-MOUNT RESISTORS

For Commercial Applications

Global Model	Power Rating	Resistance Range (Ω)	RTC (ppm/°C)	Tolerance	Dimensions	Applications
WSL0603	0.1 W	0.015 – 0.10	±75	0.5 %, 1 %	L = 0.060 in. [1.52 mm] W = 0.030 in. [0.76 mm] H = 0.013 in. [0.33 mm]	Cell phone battery fuel gauges Disc drive motor controls DC/DC converters in cell phones, pagers
WSL0805	0.125 W	0.01 – 0.2	±75	0.5 %, 1 %	L = 0.080 in. [2.03 mm] W = 0.050 in. [1.27 mm] H = 0.013 in. [0.33 mm]	
WSL0603-18	0.2 W	0.015 – 0.1	±75	0.5 %, 1 %	L = 0.060 in. [1.52 mm] W = 0.030 in. [0.76 mm] H = 0.013 in. [0.33 mm]	
WSL0805-18	0.25 W	0.01 – 0.2	±75	0.5 %, 1 %	L = 0.080 in. [2.03 mm] W = 0.050 in. [1.27 mm] H = 0.013 in. [0.33 mm]	
WSL1206	0.25 W	0.001 - 0.0029 0.003 - 0.0049 0.005 - 0.0069 0.007 - 0.2	±275 ±150 ±110 ±75	1 % 1 % 1 % 0.5 %, 1 %	L = 0.126 in. [3.20 mm] W = 0.063 in. [1.60 mm] H = 0.025 in. [0.64 mm]	Li-lon battery management DC/DC converters in switching power supplies VRMs in notebooks PCs Disc drive motor controls Automotive controls for body and powertrain
WSL1206-18	0.5 W	0.001 - 0.0029 0.003 - 0.0049 0.005 - 0.0069 0.007 - 0.2	±275 ±150 ±110 ±75	1 % 1 % 1 % 0.5 %, 1 %	L = 0.126 in. [3.20 mm] W = 0.063 in. [1.60 mm] H = 0.025 in. [0.64 mm]	
WSL2010	0.5 W	0.001 - 0.0029 0.003 - 0.0049 0.005 - 0.0069 0.007 - 0.5	±275 ±150 ±110 ±75	1 % 1 % 1 % 0.5 %, 1 %	L = 0.200 in. [5.08 mm] W = 0.100 in. [2.54 mm] H = 0.025 in. [0.64 mm]	
WSLP0805	0.5 W	0.01 – 0.05	±75	0.5 %, 1 %	L = 0.060 in. [1.52 mm] W = 0.050 in. [1.27 mm] H = 0.013 in. [0.33 mm]	
WSLP 1206	1.0 W	0.001 - 0.0029 0.003 - 0.0049 0.005 - 0.0069 0.007 - 0.05	±275 ±150 ±110 ±75	1 % 1 % 1 % 0.5 %, 1 %	L = 0.126 in. [3.20 mm] W = 0.063 in. [1.60 mm] H = 0.025 in. [0.64 mm]	
WSL2010-18	1.0 W	0.001 - 0.0029 0.003 - 0.0049 0.005 - 0.0069 0.007 - 0.5	±275 ±150 ±110 ±75	1 % 1 % 1 % 0.5 %, 1 %	L = 0.200 in. [5.08 mm] W = 0.100 in. [2.54 mm] H = 0.025 in. [0.64 mm]	
WSL2512	1.0 W	0.001 - 0.0029 0.003 - 0.0049 0.005 - 0.0069 0.007 - 0.5	±275 ±150 ±110 ±75	1 % 1 % 1 % 0.5 %, 1 %	L = 0.250 in. [6.35 mm] W = 0.125 in. [3.18 mm] H = 0.025 in. [0.64 mm]	
WSLT2010-18	1.0 W	0.01 – 0.50	±75	0.5 %, 1 %	L = 0.200 in. [5.08 mm] W = 0.100 in. [2.54 mm] H = 0.025 in. [0.64 mm]	High temperature (+ 275 °C) Automotive controls for body and powertrain Down hole oil well monitor/ testing
WSLT2512	1.0 W	0.01 – 0.5	±75	0.5 %, 1 %	L = 0.250 in. [6.35 mm] W = 0.125 in. [3.18 mm] H = 0.025 in. [0.64 mm]	
WSK2512	1.0 W	0.003 – 0.01	±50	0.5 %, 1 %	L = 0.250 in. [6.35 mm] W = 0.125 in. [3.18 mm] H = 0.025 in. [0.64 mm]	DC/DC converters in switching power supplies VRMs in notebooks, desktop PCs Instrumentation

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Global Model	Power Rating	Resistance Range (Ω)	RTC (ppm/°C)	Tolerance	Dimensions	Applications
WSL2512-18	2.0 W	0.001 - 0.0029 0.003 - 0.0049 0.005 - 0.0069 0.007 - 0.01	±275 ±150 ±110 ±75	1 % 1 % 1 % 0.5 %, 1 %	L = 0.250 in. [6.35 mm] W = 0.125 in. [3.18 mm] H = 0.025 in. [0.64 mm]	 Li-lon battery management DC/DC converters in switching power supplies VRMs in notebooks, desktop PCs Automotive controls for body and powertrain
WSR2	2.0 W	0.001 - 0.0019 0.002 - 0.0029 0.003 - 0.0039 0.004 - 0.0049 0.005 - 0.0099 0.01 - 1.0	±750 ±600 ±450 ±300 ±110 ±75	1 % 1 % 1 % 1 % 0.5 %, 1 %	L = 0.455 in. [11.56 mm] W = 0.275 in. [6.98 mm] H = 0.095 in. [2.41 mm]	 DC/DC converters in switching power supplies VRMs in notebooks, desktop PCs Instrumentation Automotive controls for body and powertrain
WSL2816	2.0 W	0.01 – 0.1	±75	0.5 %, 1 %	L = 0.280 in. [7.10 mm] W = 0.165 in. [4.20 mm] H = 0.025 in. [0.64 mm]	DC/DC converters in switching power supplies VRMs in notebooks, desktop PCs Automotive controls for EHPS/EPS/EPAS and brushless DC motors
WSL3637	3.0 W	0.001 - 0.0029 0.003 - 0.0049 0.005 - 0.010	±75 ±50 ±50	1 % 0.5 %, 1 % 0.5 %, 1 %	L = 0.370 in. [9.40 mm] W = 0.360 in. [9.14 mm] H = 0.025 in. [0.64 mm]	
WSL3921	3.0 W	0.0003 - 0.004	±50	1 %	L = 0.394 in. [10.0 mm] W = 0.205 in. [5.20 mm] H = 0.037 in. [0.93 mm]	
WSLT3921	3.0 W	0.0005 – 0.004	±50	1 %	L = 0.394 in. [10.0 mm] W = 0.205 in. [5.20 mm] H = 0.037 in. [0.93 mm]	High temperature (+ 275 °C) Automotive controls for EHPS/EPS/EPAS and brushless DC motors Down hole oil well monitor/testing
WSR3	3.0 W	0.001 - 0.0019 0.002 - 0.0029 0.003 - 0.0039 0.004 - 0.0049 0.005 - 0.0099 0.01 - 0.2	±750 ±600 ±450 ±300 ±110 ±75	1 % 1 % 1 % 1 % 0.5 %, 1 %	L = 0.455 in. [11.56 mm] W = 0.275 in. [6.98 mm] H = 0.095 in. [2.41 mm]	 DC/DC converters in switching power supplies VRMs in notebooks, desktop PCs Instrumentation Automotive controls for body and powertrain
WSH2818	5.0 W	0.001 - 0.00599 0.006 - 0.1	±200 ±75	1 % 0.5 %, 1 %	L = 0.280 in. [7.10 mm] W = 0.180 in. [4.60 mm] H = 0.032 in. [0.81 mm]	DC/DC converters in switching power supplies VRMs in notebooks, desktop PCs Automotive controls for EHPS/EPS/EPAS and brushless DC motors
WSL5931	5.0 W	0.0002 - 0.003	±50	1 %	L = 0.591 in. [15.0 mm] W = 0.305 in. [7.75 mm] H = 0.083 in. [2.10 mm]	
WSLT5931	5.0 W	0.0003 - 0.003	±50	1 %	L = 0.591 in. [15.0 mm] W = 0.305 in. [7.75 mm] H = 0.083 in. [2.10 mm]	High temperature (+ 275 °C) Automotive controls for EHPS/EPS/EPAS and brushless DC motors Down hole oil well monitor/testing
WSR5	5.0 W	0.001 - 0.0019 0.002 - 0.0029 0.003 - 0.0039 0.004 - 0.0049 0.005 - 0.0099 0.006 - 0.1	±750 ±600 ±450 ±300 ±110 ±75	1 % 1 % 1 % 1 % 0.5 %, 1 % 0.5 %, 1 %	L = 0.455 in. [11.56 mm] W = 0.275 in. [6.98 mm] H = 0.095 in. [2.41 mm]	 DC/DC converters in switching power supplies VRMs in notebooks, desktop PCs Instrumentation Automotive controls for body and powertrain

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