

Power Metal Strip® Battery Shunt Resistor W/Molded Enclosure Very Low Value (100 $\mu\Omega$)



FEATURES

- High power to resistor size ratio
- Proprietary processing technique produces extremely low resistance values
- All welded construction
- Solid metal manganese-copper alloy resistive element with low TCR (< 20 ppm/°C)
- Molded enclosure allows for easy PCB connection
- Includes 4-pin female connector that mates with a Molex type MX150 #33472-0401 connector
- Very low inductance (< 5 nH)
- Low thermal EMF (< 3 $\mu\text{V}/^\circ\text{C}$)
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

STANDARD ELECTRICAL SPECIFICATIONS

GLOBAL MODEL	SIZE	POWER RATING $P_{70^\circ\text{C}}$ W	TOLERANCE %	RESISTANCE VALUE RANGE Ω	RESISTANCE VALUES CURRENTLY AVAILABLE ⁽¹⁾ Ω	WEIGHT (typical) g
WSBM8518	8518	36	5.0	0.0001	100 μ	60

Note

(1) Other values may be available, contact factory

TECHNICAL SPECIFICATIONS

PARAMETER	UNIT	RESISTOR CHARACTERISTICS
Temperature Coefficient	ppm/°C	± 225
Temperature Coefficient (Element material)	ppm/°C	± 20
Operating Temperature Range	°C	- 65 to + 170
Thermal EMF	$\mu\text{V}/^\circ\text{C}$	< 3
Inductance	nH	< 5
Maximum Current Rating	A	$(P/R)^{1/2}$

GLOBAL PART NUMBER INFORMATION

GLOBAL PART NUMBERING: WSBM8518L1000JK (WSBM8518, 0.000100 Ω , $\pm 5\%$)

W S B M 8 5 1 8 L 1 0 0 0 J K

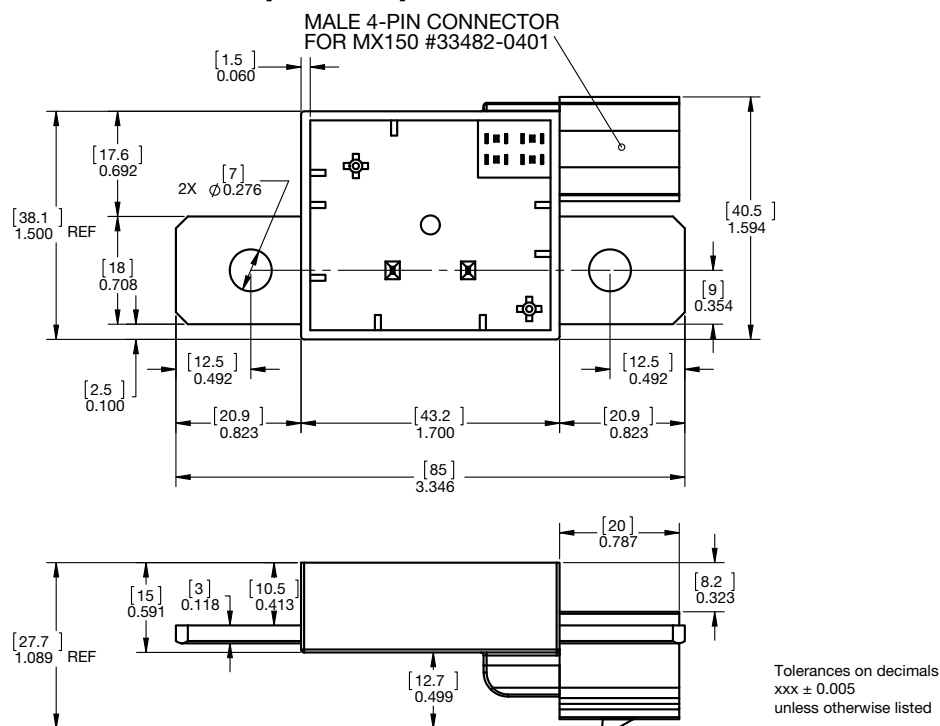
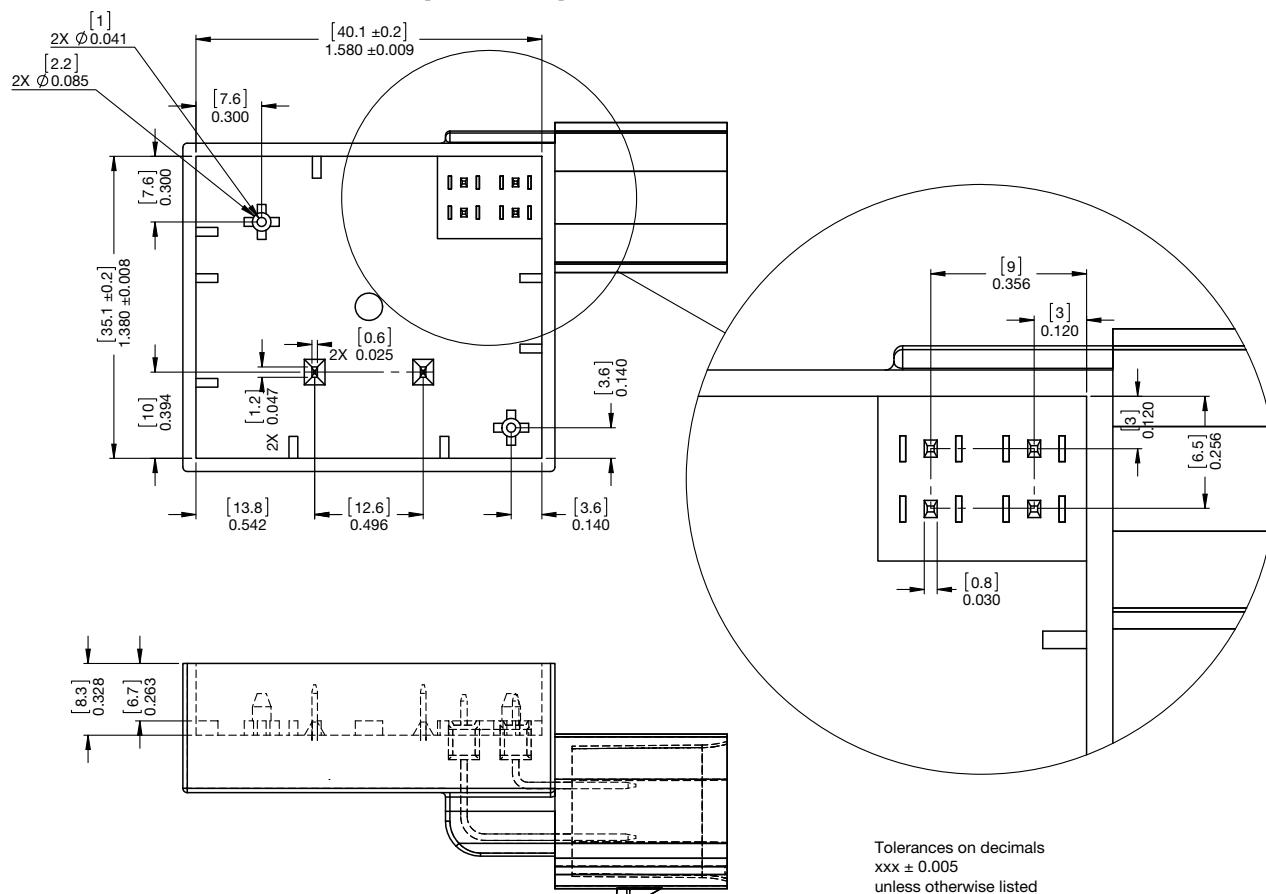
GLOBAL MODEL
(8 digits)
WSBM8518

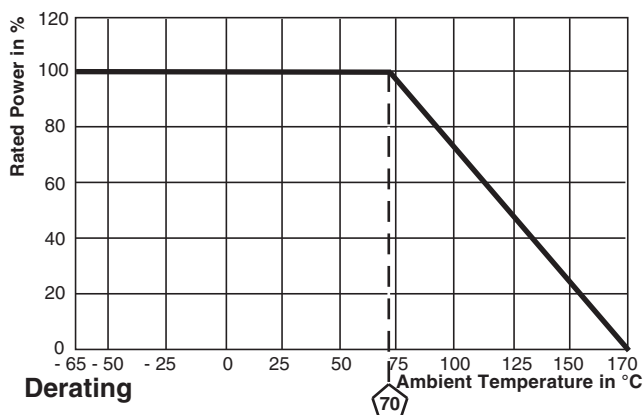
RESISTANCE VALUE
(5 digits)
L = m Ω
L1000 = 0.000100 Ω

TOLERANCE CODE
(1 digit)
J = $\pm 5.0\%$

PACKAGING CODE
(1 digit)
K = Bulk pack

SPECIAL
(up to 2 digits)
(Dash number)
From 1 to 99 as applicable

EXTERNAL DIMENSIONS in inches [millimeters]

INTERNAL DIMENSIONS in inches [millimeters]


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	5 x 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
Moisture Resistance	MIL-STD-202, method 106, 0 % power, 7b not required	± 0.5 % ΔR



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<http://moschip.ru/get-element>

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На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

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