

Power Metal Strip® Battery Shunt Resistor W/Molded Enclosure Very Low Value (100 μΩ)



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 μV/°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 $P_{70\text{ }^\circ\text{C}}$ W	TOLERANCE %	RESISTANCE VALUE RANGE Ω	RESISTANCE VALUES CURRENTLY AVAILABLE (1)	WEIGHT (typical) g
WSBM8518	8518	36	5.0	0.0001	100μ	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	μV/°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, ± 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 = mΩ
L1000 = 0.000100 Ω

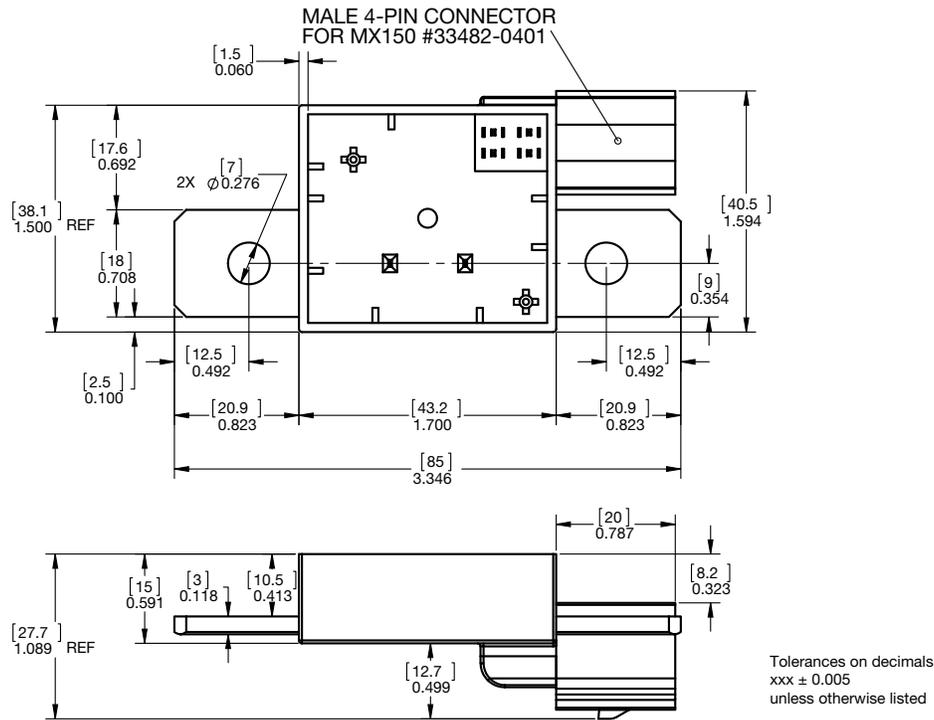
TOLERANCE CODE
(1 digit)
J = ± 5.0 %

PACKAGING CODE
(1 digit)
K = Bulk pack

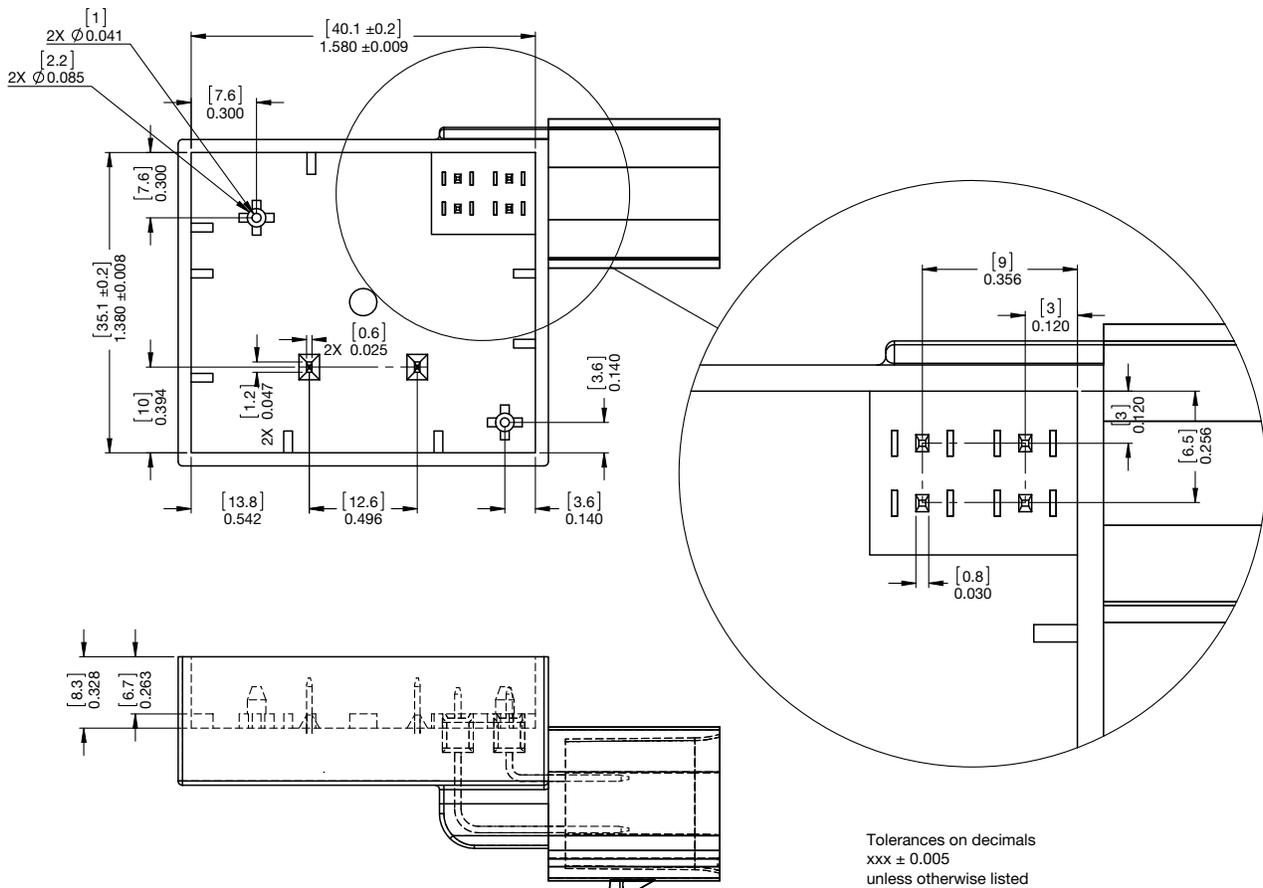
SPECIAL
(up to 2 digits)
(Dash number)
From **1** to **99** as
applicable



EXTERNAL DIMENSIONS in inches [millimeters]

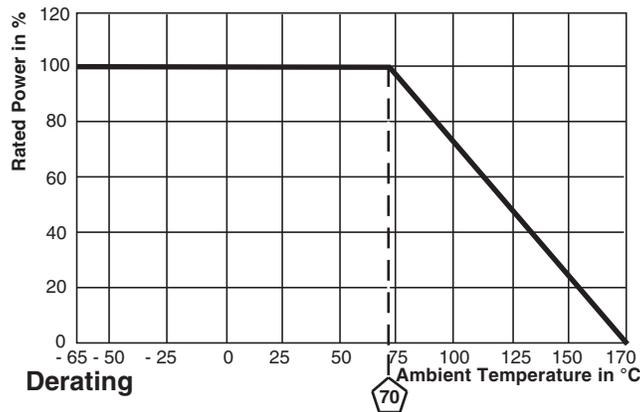


INTERNAL DIMENSIONS in inches [millimeters]





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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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
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Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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