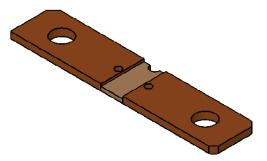


www.vishay.com

Vishay Dale

Power Metal Strip[®] Battery Shunt Resistor With M3 Tapped Holes Very Low Value (50 $\mu\Omega$, 100 $\mu\Omega$, 125 $\mu\Omega$, and 250 $\mu\Omega$)



DESIGN SUPPORT TOOLS click logo to get started

FEATURES

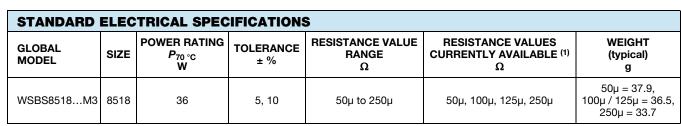
- High power to resistor size ratio
- Proprietary processing technique produces extremely low resistance values
- All welded construction
- Very low inductance (< 5 nH)
- Low thermal EMF (< 3 μV/°C)
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>



RoHS

HALOGEN FREE

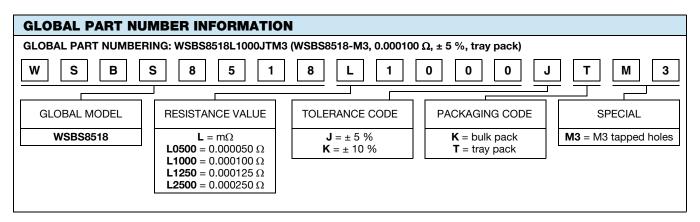
GREEN (5-2008)



Note

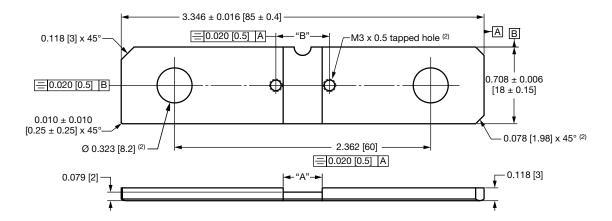
⁽¹⁾ Other values may be available, contact factory

TECHNICAL SPECIFICATIONS				
PARAMETER	UNIT	RESISTOR CHARACTERISTICS		
		\pm 200 for 50 μ Ω		
Temperature coefficient	ppm/°C	\pm 175 for 100 $\mu\Omega$ / 125 $\mu\Omega$		
		± 110 for 250 μΩ		
Temperature coefficient (element material)	ppm/°C	± 20		
Operating temperature range	°C	-65 to +170		
Maximum current rating	Α	(P/R) ^{1/2}		

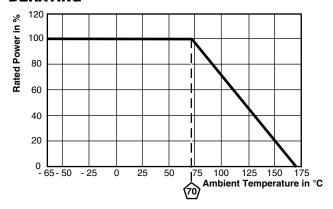




DIMENSIONS in inches (millimeters)



DERATING



TOLERANCES ON DECIMALS
$.xxx \pm 0.005 [.x \pm 0.1]$

UNLESS OTHERWISE LISTED

RESISTANCE VALUE ($\mu\Omega$)	ELEMENT MATERIAL	A REFERENCE	B ± 0.005 [± 0.13]
50	Mn-Cu	0.145 [3.7]	0.281 [7.1]
100	Mn-Cu	0.360 [9.1]	0.495 [12.6]
125	Mn-Cu	0.454 [11.5]	0.590 [15.0]
250	Mn-Cu	0.900 [22.86]	1.036 [26.3]

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 storage	-65 °C for 24 h	± 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		



Legal Disclaimer Notice

Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Current Sense Resistors - SMD category:

Click to view products by Vishay manufacturer:

Other Similar products are found below:

CRL0603-FW-R700ELF 65709-330JE PF2512FKF7W0R007L PR2512FKF7W0R003L PR2512FKF7W0R005L PF2512FKF7W0R006L

PF2512FKF7W0R033L CD2015FC-0.10-1% PR2512FKF7W0R004L RC1005F124CS RL73K3AR56JTDF RL7520WT-R001-F

RL7520WT-R009-G RL7520WT-R020-F RLP73N1ER43JTD LRC-LR2512LF-01-R820J WR06X104JGLJ TL2BR01F 65709-330 SP1R12J

RL7520WT-R039-G PF1206FRF7W0R02L RL7520WT-R002-F RL7520WT-R047-F RL7520WT-R005-F KRL1632E-C-R200-F-T5

KRL1632E-C-R200-F-T1 Y14880R02000B9R RLP73M1ER051FTDF RLP73M2AR051FTDF RLP73M2AR075FTDF RLP73K2A1R0FTDF

RLP73M1JR051FTDF RLP73N1JR47FTDF SR731ERTTP5R10F SR731ERTTP100J SR731ERTTP6R80F SR731ERTTP4R70F

SR731ERTTP2R20F SR731ERTTP3R90F SR731ERTTP1R00F SR731ERTTP10R0F SR731ERTTP2R00F SR731ERTTP1R0J

SR731ERTTP3R9J SR731ERTTP8R2J SR731ERTTP2R0J SR731ERTTP4R7J SR731ERTTP9R1J SR731ERTTP1R0J