Vishay Dale



Wirewound Resistors, Noise Suppressor



FEATURES

- Ideal for reducing RFI during electrical discharges on gasoline engines
- Variety of resistance and inductance values available



- RoHS COMPLIANT GREEN (5-2008)**
- Special design of electrical contacts upon request
- Capability to withstand high voltage pulses at high frequency
- Compliant to RoHS directive 2002/95/EC

TECHNOLOGY

The resistor element is a resistive wire, which is wound in a single layer on a fiberglass core. Metallic caps or electrodes are fixed to the ends of the resistive core, following the specific ignition system characteristics. A coating protects the resistive element against moisture and mechanical shock, plus is able to withstand high temperatures. These products can be molded with epoxy resin, thermoplastic or thermo set materials.

TYPE 1 (WITH CAPS)	TYPE 2 (WITH ELECTRODES)		

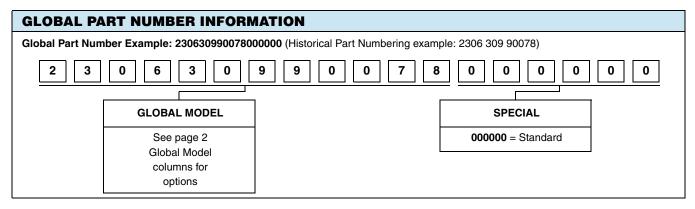
TECHNICAL SPECIFICATIONS							
PARAMETER	UNIT	NSR CHARACTERISTICS					
Resistance Range ⁽¹⁾	Ω	1K - 15K					
Tolerances ⁽²⁾	%	± 10 , ± 15, ± 20					
Inductance Range, 2 MHz ⁽³⁾	μH	5 to 56					
Temperature Coefficient	ppm/°C	± 250					
Operating Temperature Range	°C	- 40 to + 200					

Notes

⁽¹⁾ Special resistance values available upon request

⁽²⁾ Other tolerances available upon request

(3) Special inductance values available upon request



** Please see document "Vishay Material Category Policy": www.vishay.com/doc?99902

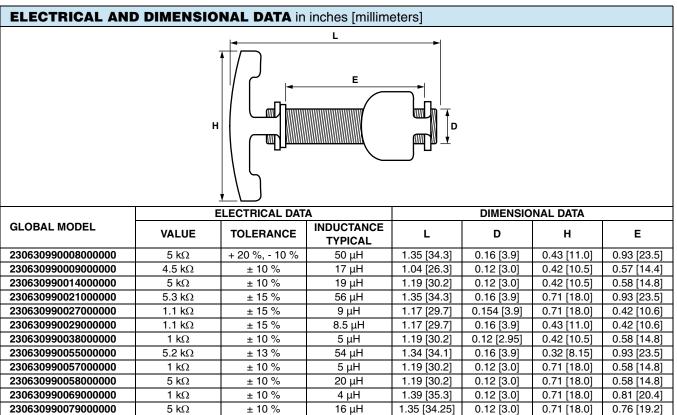


Vishay Dale

TYPE 1 - NOISE SUPPRESSOR WITH CAPS

ELECTRICAL AND DIMENSIONAL DATA in inches [millimeters]									
GLOBAL MODEL	ELECTRICAL DATA			DIMENSIONAL DATA					
	VALUE	TOLERANCE	INDUCTANCE TYPICAL	L	D	н			
230630990035000000	5 kΩ	± 20 %	20 µH	0.79 [20.0]	0.153 [3.88]	0.112 [2.85]			
230630990047000000	5.2 kΩ	± 15 %	15 µH	0.66 [16.8]	0.124 [3.15]	0.094 [2.40]			
230630990048000000	1 kΩ	+ 20 %, - 10 %	16 µH	0.66 [16.8]	0.124 [3.15]	0.094 [2.40]			
230630990053000000	5 kΩ	± 20 %	18 µH	0.93 [23.7]	0.153 [3.88]	0.112 [2.85]			
230630990078000000	1 kΩ	± 20 %	10 µH	0.93 [23.7]	0.153 [3.88]	0.112 [2.85]			
230630990085000000	1 kΩ	± 20 %	9 µH	1.02 [26.0]	0.153 [3.88]	0.112 [2.85]			
230630990086000000	1 kΩ	± 20 %	5 µH	0.79 [20.0]	0.153 [3.88]	0.112 [2.85]			
230630990094000000	5 kΩ	± 20 %	16 µH	0.93 [23.7]	0.153 [3.88]	0.112 [2.85]			
230630990095000000	15 kΩ	± 20 %	12 µH	1.08 [27.3]	0.15 [3.82]	0.112 [2.85]			
230630990101000000	1.12 kΩ	± 20 %	13 µH	0.47 [11.9]	0.171 [4.35]	0.112 [2.85]			
230630990105000000	2 kΩ	± 20 %	14 μH	0.53 [13.5]	0.171 [4.35]	0.112 [2.85]			
230630990106000000	2 kΩ	± 20 %	21 µH	1.08 [27.3]	0.153 [3.88]	0.112 [2.85]			
230630990107000000	2 kΩ	± 20 %	8 µH	0.79 [20.0]	0.153 [3.88]	0.112 [2.85]			
230630990108000000	5 kΩ	± 20 %	10 µH	0.93 [23.7]	0.153 [3.88]	0.112 [2.85]			
230630990112000000	2 kΩ	± 20 %	9 μH	1.02 [26.0]	0.153 [3.88]	0.112 [2.85]			

TYPE 2 - NOISE SUPPRESSOR WITH ELECTRODES



Note

· Other electrode designs available under request



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 and agree to fully indemnify and hold Vishay and its distributors harmless from and against any and all claims, liabilities, expenses and damages arising or resulting in connection with such use or sale, including attorneys fees, even if such claim alleges that Vishay or its distributor was negligent regarding the design or manufacture of the part. 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.