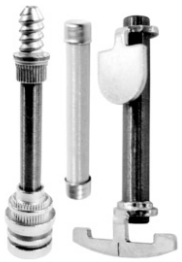
Wirewound Resistors, Noise Suppressor



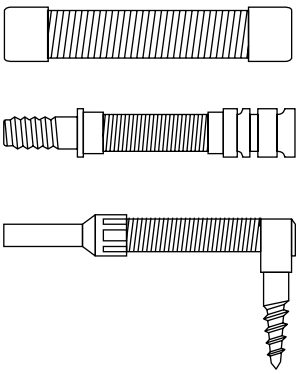
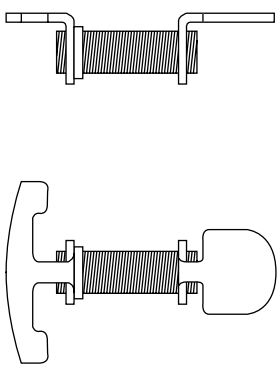
FEATURES

- Ideal for reducing RFI during electrical discharges on gasoline engines
- Variety of resistance and inductance values available
- Special design of electrical contacts upon request
- Capability to withstand high voltage pulses at high frequency
- Compliant to RoHS directive 2002/95/EC

Pb-free
RoHS COMPLIANT
GREEN (5-2008)**

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

GLOBAL PART NUMBER INFORMATION

Global Part Number Example: 230630990078000000 (Historical Part Numbering example: 2306 309 90078)

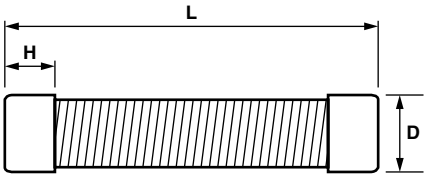
2	3	0	6	3	0	9	9	0	0	7	8	0	0	0	0	0	0

GLOBAL MODEL	SPECIAL
See page 2 Global Model columns for options	**000000** = Standard

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

TYPE 1 - NOISE SUPPRESSOR WITH CAPS

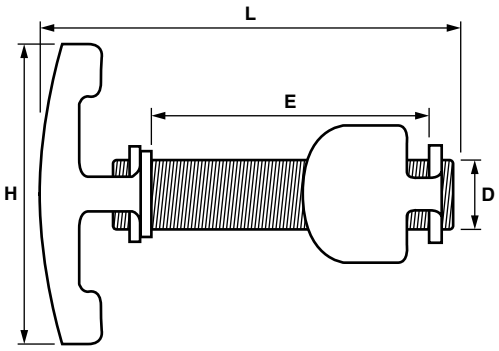
ELECTRICAL AND DIMENSIONAL DATA in inches [millimeters]



GLOBAL MODEL	ELECTRICAL DATA			DIMENSIONAL DATA		
	VALUE	TOLERANCE	INDUCTANCE TYPICAL	L	D	H
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

ELECTRICAL AND DIMENSIONAL DATA in inches [millimeters]



GLOBAL MODEL	ELECTRICAL DATA			DIMENSIONAL DATA			
	VALUE	TOLERANCE	INDUCTANCE TYPICAL	L	D	H	E
230630990008000000	5 kΩ	+ 20 %, - 10 %	50 µH	1.35 [34.3]	0.16 [3.9]	0.43 [11.0]	0.93 [23.5]
230630990009000000	4.5 kΩ	± 10 %	17 µH	1.04 [26.3]	0.12 [3.0]	0.42 [10.5]	0.57 [14.4]
230630990014000000	5 kΩ	± 10 %	19 µH	1.19 [30.2]	0.12 [3.0]	0.42 [10.5]	0.58 [14.8]
230630990021000000	5.3 kΩ	± 15 %	56 µH	1.35 [34.3]	0.16 [3.9]	0.71 [18.0]	0.93 [23.5]
230630990027000000	1.1 kΩ	± 15 %	9 µH	1.17 [29.7]	0.154 [3.9]	0.71 [18.0]	0.42 [10.6]
230630990029000000	1.1 kΩ	± 15 %	8.5 µH	1.17 [29.7]	0.16 [3.9]	0.43 [11.0]	0.42 [10.6]
230630990038000000	1 kΩ	± 10 %	5 µH	1.19 [30.2]	0.12 [2.95]	0.42 [10.5]	0.58 [14.8]
230630990055000000	5.2 kΩ	± 13 %	54 µH	1.34 [34.1]	0.16 [3.9]	0.32 [8.15]	0.93 [23.5]
230630990057000000	1 kΩ	± 10 %	5 µH	1.19 [30.2]	0.12 [3.0]	0.71 [18.0]	0.58 [14.8]
230630990058000000	5 kΩ	± 10 %	20 µH	1.19 [30.2]	0.12 [3.0]	0.71 [18.0]	0.58 [14.8]
230630990069000000	1 kΩ	± 10 %	4 µH	1.39 [35.3]	0.12 [3.0]	0.71 [18.0]	0.81 [20.4]
230630990079000000	5 kΩ	± 10 %	16 µH	1.35 [34.25]	0.12 [3.0]	0.71 [18.0]	0.76 [19.2]

Note
- Other electrode designs available under request

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