

NSW Noise Suppressor Wirewound Resistor

Catalogue

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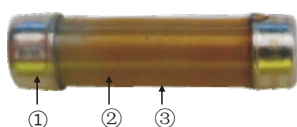
Features

- High resistance value
- High reliability

Applications

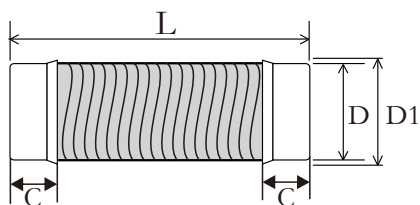
- The NSW series has been developed to be introduced in automotive ignition systems to reduce Radio frequency interference (RFI)
- Which are caused during electrical discharges on petrol engines in both cars and motorcycles. In order to meet the current legislation in force to reduce these disturbances, the introduction of these noise suppressor resistors in the rotor of the distributor or the spark plug leads can ensure compliance.

Construction



①	②	③
Copper cap	Glassfiber	Alloy wire

Dimensions



Type	Power	L(±0.3) mm	D(max) mm	D1(±0.1) mm	C±0.2 mm
NSW	1WA	7.9	4.35	4.45	3.1
	1WB	11.0	4.35	4.45	3.1
	1WC	11.0	4.30	4.60	3.1
	2W	14.5	4.35	4.45	3.1
	3WA	18.0	4.75	4.90	3.1
	3WB	18.0	4.65	4.90	3.1
	3WC	18.0	4.35	4.90	3.1
	4W	21.0	4.35	4.60	3.1
	5W	23.7	4.65	4.90	3.1

Ordering Information

Example:

NSW	2	K	1K0
(1)	(2)	(3)	(4)
Series Name	Power Rating	Resistance Tolerance	Resistance Value

(1)Style:NSW SERIES

(2)Power Rating: 1W=1W、2=2W、3=3W、4=4W、5=5W

(3)Tolerance: K=±10%、M=±20%

(4)Resistance Value:100R00=100Ω、1K0=1K、5K0=5K、10K0=10K

Reference Standards

JIS C 5201-1

Applications And Ratings

Type	Power	Resistance Value	Resistance Tolerance	Typical Inductance
NSW	1WA	100Ω~10KΩ	± 5% ± 10% ± 20% ± 20%	MIN 9μH at freq.1Mhz
	1WB			
	1WC			
	2W			
	3WA	100Ω~15KΩ		
	3WB			
	3WC			
	4W			
	5W			

Performance Characteristics

Test Item	Specifications	Test Methods
Short Time Overload	$\Delta R \leq (2\%R + 0.05\Omega)$	5PR,5sec
Inductance	MIN 9μH	at freq.1Mhz
T C R	$\pm 150\text{ppm}/^\circ\text{C}$	---
Load Life	$\Delta R \leq (5\%R + 0.1\Omega)$	70°C ,PR1000h
Terminal Tensile Strength	$\Delta R \leq (1\%R + 0.05\Omega)$	5kg,30s
High Voltage Pulses At High Frequency	$\Delta R \leq (1\%R + 0.05\Omega)$	15kv to 20kv continuous pulses 0.1ses ON&0.1 ses OFF in series with spark plug-duration 3hrs
Operating Temperature Range	-40°C to 250°C	---
Dielectric Strength	$\Delta R \leq (1\%R + 0.05\Omega)$	25kv continuously 30kv,10 minutes

Typical Frequency Response

