



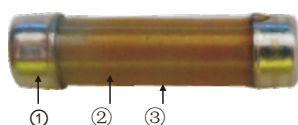
## ● Features

- High resistance value
- High reliability

## ● Applications

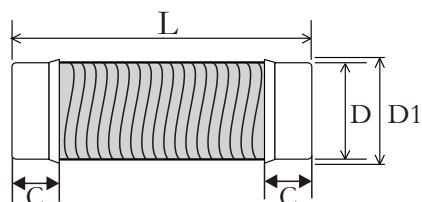
- The NSW series has been developed to be introduced in automotive ignition systems to reduce Radio frequency interference (RFI)
- Which are caused during electrical discharges on petrol engines in both cars and motorcycles. In order to meet the current legislation in force to reduce these disturbances, 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)<br>mm | D(max)<br>mm | D1(±0.1)<br>mm | C±0.2<br>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         | 3            | K                    | 1K0              |
| (1)         | (2)          | (3)                  | (4)              |
| Series Name | Power Rating | Resistance Tolerance | Resistance Value |

(1)Style:NSW SERIES

(2)Power Rating: 1=1W、2W=2W 2.5W=2.5W、3=3W、4=4W

(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%<br>± 10%<br>± 20%<br>± 20% | MIN 9μH<br><br>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℃,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<br>0.1ses ON&0.1 ses OFF in series<br>with spark plug-duration 3hrs |
| Operating Temperature Range           | -40℃ to 250℃                        | ---                                                                                                |
| Dielectric Strength                   | $\Delta R \leq (1\%R + 0.05\Omega)$ | 25kv continuously 30kv,10 minutes                                                                  |

## Typical Frequency Response

