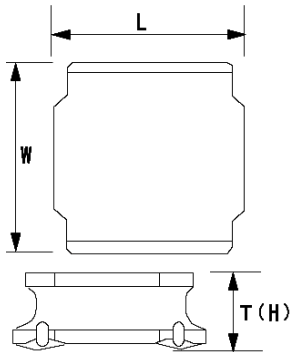


# Spec Sheet

SMD Power Inductors for Industrial / Automotive Comfort and Safety Applications (NR series H type / V type / S type)

## NRS5012T100MMGFV



### ■ Features

- Item Summary  
10  $\mu$ H( $\pm 20\%$ ), 1400mA, 850mA
- Lifecycle Stage  
Mass Production
- AEC-Q200 qualified
- Standard packaging quantity (minimum)  
Taping 1000pcs

### ■ Products characteristics table

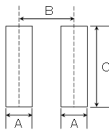
|                                         |                          |
|-----------------------------------------|--------------------------|
| CaseSize (EIA/JIS)                      | ~/5012                   |
| Inductance                              | 10 $\mu$ H( $\pm 20\%$ ) |
| Inductance Measuring Frequency          | 100kHz                   |
| Rated Current -Saturation Current       | 1400mA                   |
| Rated Current -Temperature Rise Current | 850mA                    |
| DC Resistance (max)                     | 0.504 $\Omega$           |
| Avg. of DC.Resistance                   | 0.42 $\Omega$            |
| Temperature Range                       | -40°C to 125°C           |
| Self-resonant Frequency (min)           | 26MHz                    |
| RoHS Compliance                         | Yes                      |
| Halogen Free                            | Yes                      |
| Soldering Method                        | Reflow                   |

### ■ External Dimensions

|   |                 |
|---|-----------------|
| L | 4.9mm $\pm 0.2$ |
| W | 4.9mm $\pm 0.2$ |
| H | 1.2mm max       |

### ■ Recommended Land Patterns

|                                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 【推奨ランドパターン】<br>実装上の注意<br>・実装状態を確認の上ご使用ください。また、ご購入の際は、<br>・本製品のほんたの付は、フローはんだ工法に準じます。                                                                                                              |
| 【Recommended Land Patterns】<br>Surface Mounting<br>・Mounting and soldering conditions should be checked beforehand.<br>・Applicable soldering process to these products is reflow soldering only. |



|                                                                 |     |     |   |
|-----------------------------------------------------------------|-----|-----|---|
| SMD Power Inductors (NR series/NR series H type/S type /V type) |     |     |   |
| Type                                                            | A   | B   | C |
| NRS5010                                                         |     |     |   |
| NRS5012                                                         |     |     |   |
| NRS5014                                                         |     |     |   |
| NRS5020                                                         | 1.5 | 3.6 | 4 |
| NRS5024                                                         |     |     |   |
| NRS5030                                                         |     |     |   |
| NR 5040, NRS5040                                                |     |     |   |

unit:mm

The data is reference only. Electrical characteristics vary depending on environment or measurement condition.  
TAIYO YUDEN reserves the right to make change to the Date at any time without notice.  
Before making final selection, please check product specification.

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