

## Inductors

## BRC2518T220M



## ■ Features

- Item Summary  
22 $\mu$ H $\pm$ 20%, 0.49A, 1007/2518 (EIA/JIS)
- Lifecycle Stage  
New PN available
- Standard packaging quantity (minimum)  
Taping Embossed 2000pcs

## ■ Products characteristics table

|   |   |
|---|---|
| Inductance  | 22 $\mu$ H $\pm$ 20 %                             |
| Case Size (EIA/JIS)                               | 1007/2518   |
| Rated Current (max)                               | 0.49 A  |
| Saturation Current (max)                          | 0.64 A ( $\Delta$ L=30%)                          |
| Temperature Rise Current (max)                    | 0.49 A ( $\Delta$ T=40°C)                         |
| DC Resistance (max)                               | 0.728 $\Omega$                                    |
| DC Resistance (typ)                               | 0.56 $\Omega$                                     |
| LQ Measuring Frequency                            | 1 MHz   |
| Self Resonant Frequency (min)                     | 10 MHz  |
| Operating Temp. Range                             | -40 to +105 °C<br>(Including-self-generated heat) |
| Temperature characteristic<br>(Inductance change) | $\pm$ 15 %  |
| RoHS Compliance (10 subst.)                       | Yes   |
| REACH Compliance (223 subst.)                     | Yes   |
| Halogen Free                                      | Yes   |
| Soldering   | Reflow  |

## ■ External Dimensions

|             |                  |
|-------------|------------------|
| Dimension L | 2.5 $\pm$ 0.2 mm |
| Dimension W | 1.8 $\pm$ 0.2 mm |
| Dimension T | 1.8 $\pm$ 0.2 mm |
| Dimension e | 0.5 $\pm$ 0.2 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 data at any time without notice.  
 Before making final selection, please check product specification.

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Wire-wound Chip Power Inductors (BR series)

**BRC2518T220M**

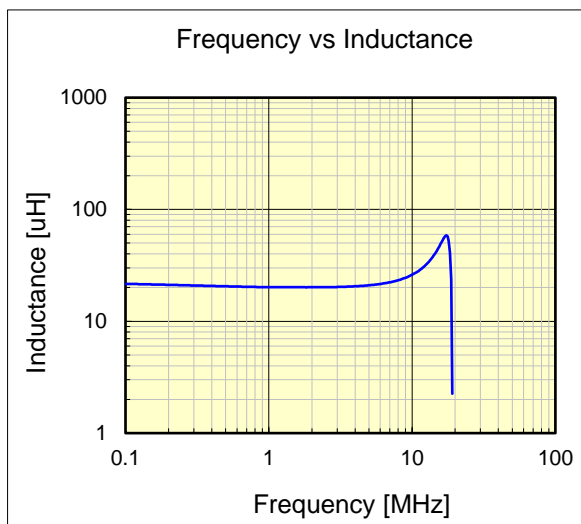
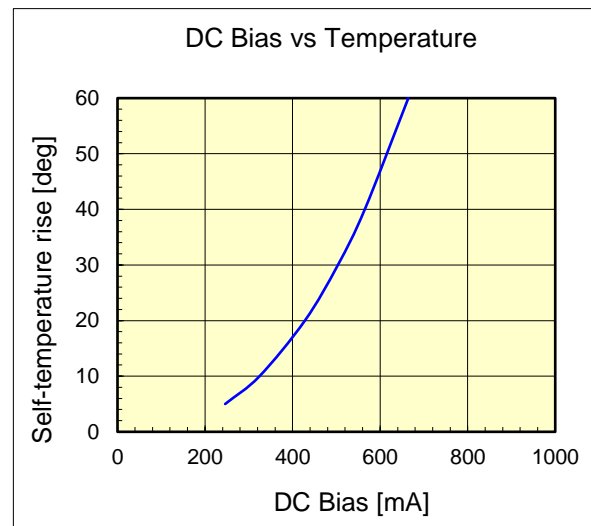
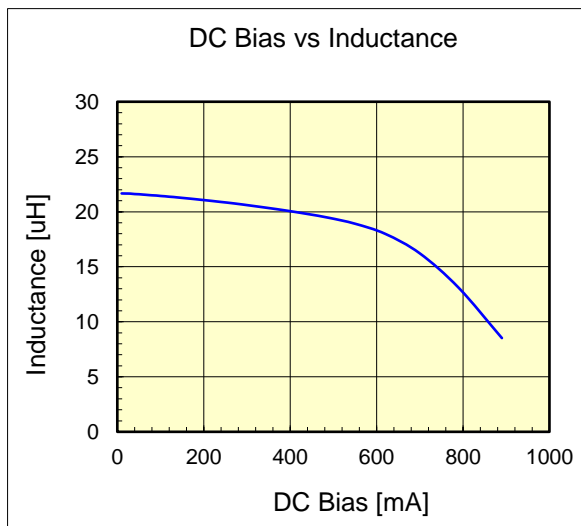


| Dimension | unit : mm   | unit : inch         |
|-----------|-------------|---------------------|
| Length :  | 2.5 +/- 0.2 | ( 0.098 +/- 0.008 ) |
| Width :   | 1.8 +/- 0.2 | ( 0.071 +/- 0.008 ) |
| Height :  | 1.8 +/- 0.2 | ( 0.071 +/- 0.008 ) |

|                      |              |     |                       |
|----------------------|--------------|-----|-----------------------|
| Inductance :         | 22           | uH  | ( test freq at 1MHz ) |
| DC Resistance :      | 0.56 / 0.728 | ohm | ( typ / max )         |
| Saturation Current : | 640          | mA  |                       |
| Temp. rise Current : | 490          | mA  |                       |

Saturation current typical : 30% reduction from initial L value.

Temp rise Current typical : Temperature will rise by 40 deg C



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Please read this notice before using the TAIYO YUDEN products.



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