

Wire-wound Chip Power Inductors (BR series)[BRC]

BRC1608T1R0M



■ Features

- Item Summary
1.0uH±20%, 0.52A, 0603/1608 (EIA/JIS)
- Lifecycle Stage
Mass Production
- Standard packaging quantity (minimum)
Taping Embossed 3000pcs

■ Products characteristics table

| | |
|---|---|
| Inductance | 1.0 uH ± 20 % |
| Case Size (EIA/JIS) | 0603/1608 |
| Rated Current (max) | 0.52 A |
| Saturation Current (max) | 0.85 A |
| Temperature Rise Current (max) | 0.52 A |
| DC Resistance (max) | 0.234 Ω |
| DC Resistance (typ) | 0.18 Ω |
| LQ Measuring Frequency | 7.96 MHz |
| Self Resonant Frequency (min) | 140 MHz |
| Operating Temp. Range | -40 to +105 °C (Including-self-generated heat) |
| Temperature characteristic (Inductance change) | ± 15 % |
| RoHS2 Compliance (10 subst.) | Yes |
| REACH Compliance (173 subst.) | Yes |
| Halogen Free | Yes |
| Soldering | Reflow |

■ External Dimensions

| | |
|-------------|---------------|
| Dimension L | 1.6 ±0.2 mm |
| Dimension W | 0.8 ±0.2 mm |
| Dimension T | 0.8 ±0.2 mm |
| Dimension e | 0.45 ±0.15 mm |

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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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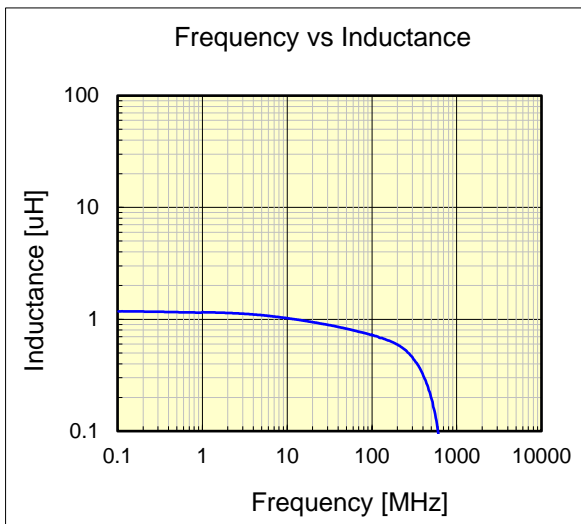
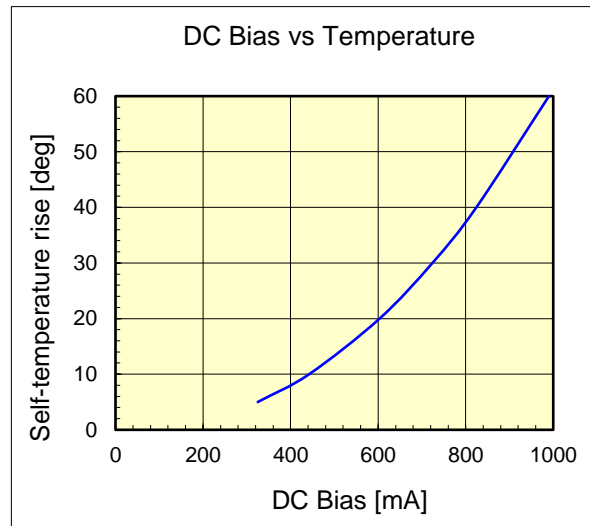
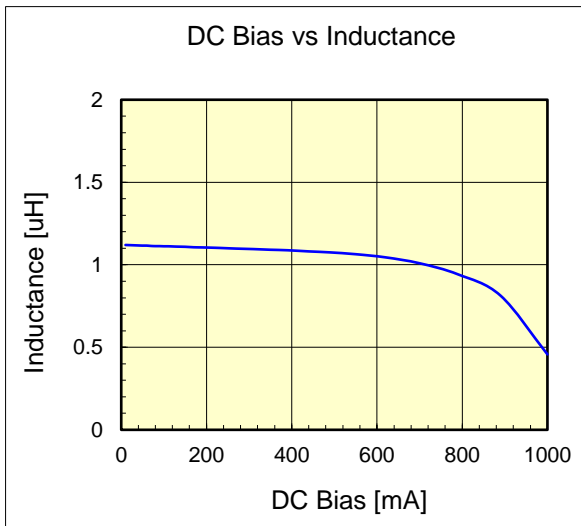


| Dimension | unit : mm | unit : inch |
|-----------|-------------|---------------------|
| Length : | 1.6 +/- 0.2 | (0.063 +/- 0.008) |
| Width : | 0.8 +/- 0.2 | (0.031 +/- 0.008) |
| Height : | 0.8 +/- 0.2 | (0.031 +/- 0.008) |

| | | | |
|----------------------|--------------|-----|--------------------------|
| Inductance : | 1.0 | uH | (test freq at 7.96MHz) |
| DC Resistance : | 0.18 / 0.234 | ohm | (typ / max) |
| Saturation Current : | 850 | mA | |
| Temp. rise Current : | 520 | 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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