

Inductors

BRC1608TR45M



■ Features

- Item Summary
0.45uH±20%, 0.8A, 0603/1608 (EIA/JIS)
- Lifecycle Stage
New PN available
- Standard packaging quantity (minimum)
Taping Embossed 3000pcs

■ Products characteristics table

Inductance	0.45 uH ± 20 %
Case Size (EIA/JIS)	0603/1608
Rated Current (max)	0.8 A
Saturation Current (max)	1.25 A ($\Delta L=30\%$)
Temperature Rise Current (max)	0.8 A ($\Delta T=40^{\circ}\text{C}$)
DC Resistance (max)	117 m Ω
DC Resistance (typ)	90 m Ω
LQ Measuring Frequency	7.96 MHz
Self Resonant Frequency (min)	200 MHz
Operating Temp. Range	-40 to +105 °C (Including-self-generated heat)
Temperature characteristic (Inductance change)	± 15 %
RoHS Compliance (10 subst.)	Yes
REACH Compliance (223 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

2022.06.01

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.

Wire-wound Chip Power Inductors (BR series)

BRC1608TR45M

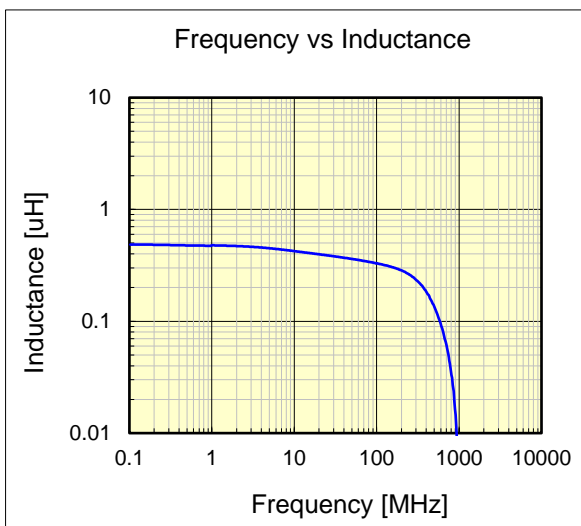
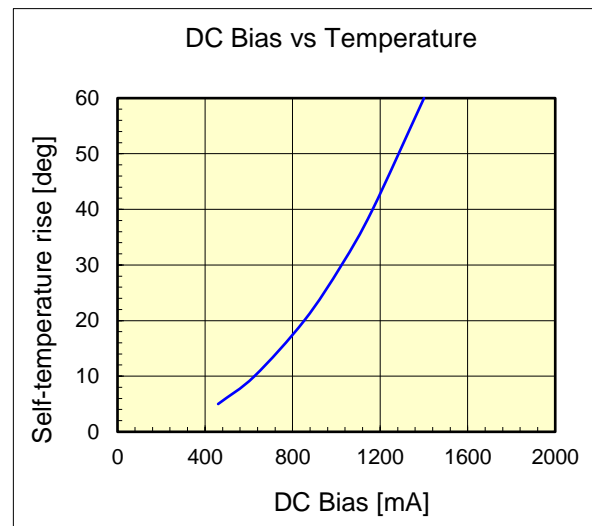
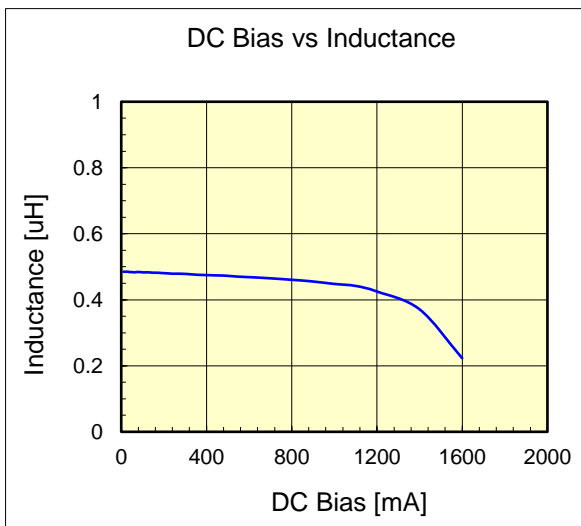


Dimension	unit : mm	unit : inch
Length :	1.6 +/- 0.2	(0.063 +/- 0.008)
Width :	0.8 +/- 0.2	(0.031 +/- 0.008)
Height :	0.8 +/- 0.2	(0.031 +/- 0.008)

Inductance :	0.45	uH	(test freq at 7.96MHz)
DC Resistance :	0.09 / 0.117	ohm	(typ / max)
Saturation Current :	1,250	mA	
Temp. rise Current :	800	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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Please do not incorporate our products into any equipment requiring high levels of safety and/or reliability (e.g., aerospace equipment, aviation equipment, medical equipment classified as Class IV by IMDRF, nuclear control equipment, undersea equipment, military equipment).
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