# Wire-wound Chip Power Inductors (CB series)[CB]

CB2012T6R8M

Features

– Item Summary

6.8uH±20%, 0.25A, 0805/2012 (EIA/JIS)

– Lifecycle Stage

Mass Production

– Standard packaging quantity (minimum)

Taping Embossed 3000pcs

Products characteristics table

Inductance	6.8 uH ± 20 %
Case Size (EIA/JIS)	0805/2012
Rated Current (max)	0.25 A
Saturation Current (max)	0.25 A
Temperature Rise Current (max)	0.54 A
DC Resistance (max)	0.611 Ω
DC Resistance (typ)	0.47 Ω
LQ Measuring Frequency	7.96 MHz
Self Resonant Frequency (min)	38 MHz
Operating Temp. Range	-40 to +105 ℃ (Including-self-generated heat)
Temperature characteristic (Inductance change)	± 20 %
RoHS2 Compliance (10 subst.)	Yes
REACH Compliance (173 subst.)	Yes
Halogen Free	Yes
Soldering	Reflow

External Dimensions

Dimension L	2.0 ±0.2 mm
Dimension W	1.25 ±0.2 mm
Dimension T	1.25 ±0.2 mm
Dimension e	0.5 ±0.2 mm

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Dimension	unit : mm	unit : inch
Length :	2.0 + / - 0.2	(0.079 + / - 0.008)
Width :	1.25 + / - 0.2	(0.049 + / - 0.008)
Height :	1.25 + / - 0.2	(0.049 + / - 0.008)

Inductance :   6.8   uH   (test freq at 7.96MHz)
DC Resistance :   0.47 / 0.611   ohm (typ / max)
Saturation Current :   250   mA
Temp. rise Current :   540   mA

Saturation current typical :   30% reduction from initial L value.
Temp rise Current typical :   Temperature will rise by 40 deg C

DC Bias vs Inductance

DC Bias vs Temperature

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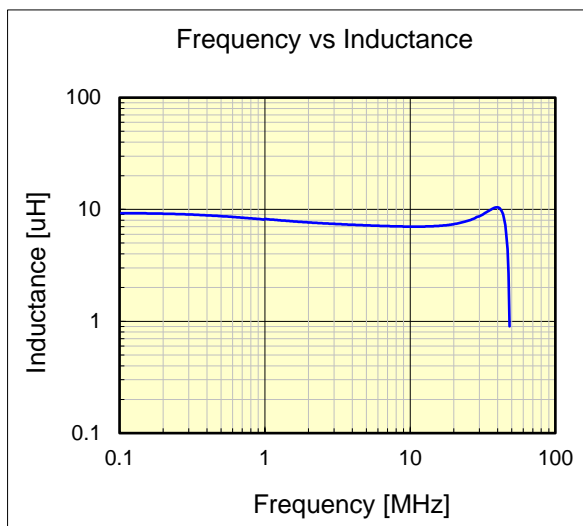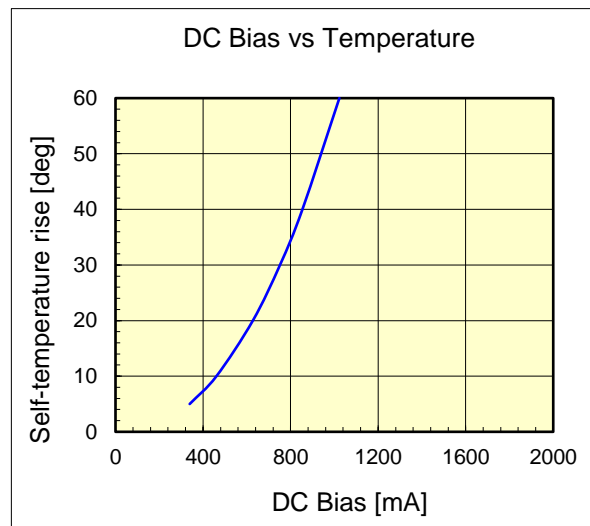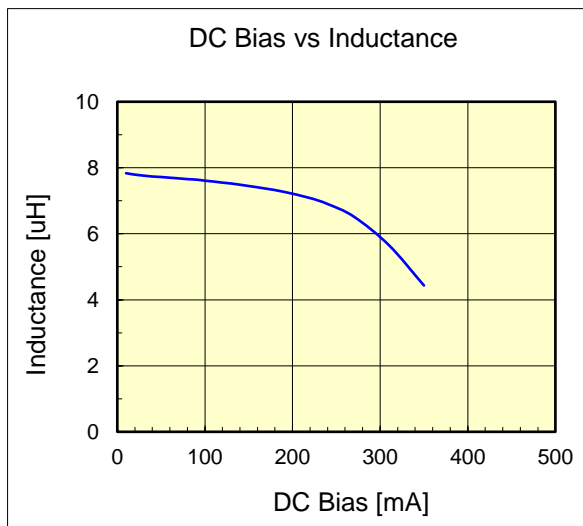
The data is reference only. Electrical characteristics vary depending on environment or measurement condition.
TAIYO YUDEN reserves the right to make change to the data at any time without notice.
*Before making final selection, please check product specification.*