

Wire-wound Chip Power Inductors for Automotive / Industrial Applications (CB series)[CB]

CB2016T470MV



■ Features

- Item Summary
47uH $\pm$ 20%, 0.11A, 0806/2016 (EIA/JIS)
- Lifecycle Stage
Mass Production
- Standard packaging quantity (minimum)
Taping Embossed 2000pcs

■ Products characteristics table

Inductance	47 uH $\pm$ 20 %
Case Size (EIA/JIS)	0806/2016
Rated Current (max)	0.11 A
Saturation Current (max)	0.11 A
Temperature Rise Current (max)	0.12 A
DC Resistance (max)	3.12 Ω
DC Resistance (typ)	2.4 Ω
LQ Measuring Frequency	2.52 MHz
Self Resonant Frequency (min)	11 MHz
Operating Temp. Range	-40 to +105 $^{\circ}$ C (Including-self-generated heat)
Temperature characteristic (Inductance change)	$\pm$ 20 %
RoHS2 Compliance (10 subst.)	Yes
REACH Compliance (181 subst.)	Yes
Halogen Free	Yes
Soldering	Reflow

■ External Dimensions

Dimension L	2.0 $\pm$ 0.2 mm
Dimension W	1.6 $\pm$ 0.2 mm
Dimension T	1.6 $\pm$ 0.2 mm
Dimension e	0.5 $\pm$ 0.2 mm

2018.03.10

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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(CB series)

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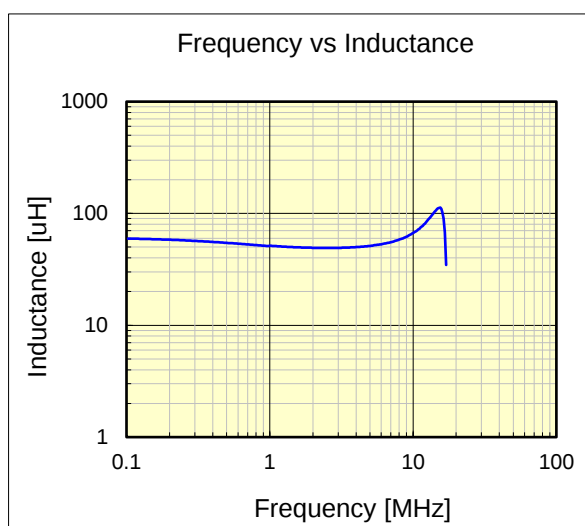
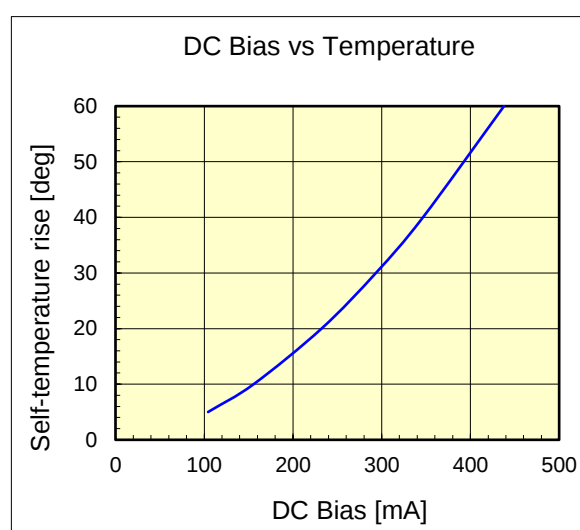
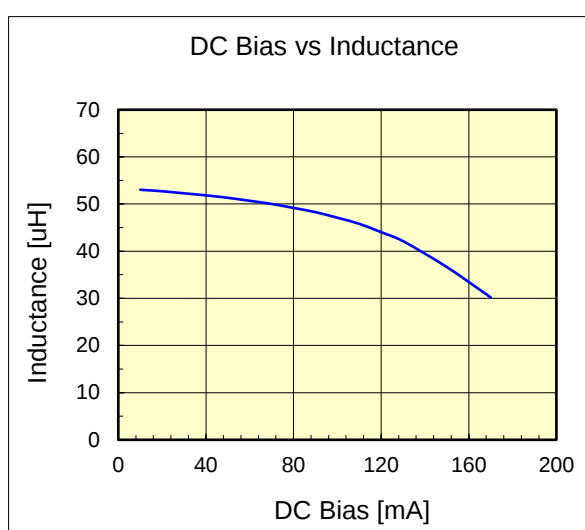


Dimension	unit : mm	unit : inch
Length :	2.0 + / - 0.2	(0.079 + / - 0.008)
Width :	1.6 + / - 0.2	(0.063 + / - 0.008)
Height :	1.6 + / - 0.2	(0.063 + / - 0.008)

Inductance :	47	μ H	(test freq at 2.52MHz)
DC Resistance :	2.4	/	3.12 ohm (typ / max)
Saturation Current :	110	mA	
Temp. rise Current :	120	mA	

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

Temp rise Current typical : Temperature will rise by 20 deg C



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Please read this notice before using the TAIYO YUDEN products.



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- The product listed in this spec sheet is intended for use in general electronic equipment (e.g., AV equipment, OA equipment, home electric appliances, office equipment, information and communication equipment), medical equipment classified as Class I or II by IMDRF, industrial equipment, and automotive interior applications, etc. Please be sure to contact TAIYO YUDEN for further information before using the product for any equipment which may directly cause loss of human life or bodily injury (e.g., transportation equipment including, without limitation, automotive powertrain control system, train control system, and ship control system, traffic signal equipment, medical equipment classified as Class III by IMDRF).

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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