

## Inductors

## CB2012T470K



## ■ Features

- Item Summary  
47 $\mu$ H $\pm$ 10%, 90mA, 0805/2012 (EIA/JIS)
- Lifecycle Stage  
New PN available
- Standard packaging quantity (minimum)  
Taping Embossed 3000pcs

## ■ Products characteristics table

Inductance	47 $\mu$ H $\pm$ 10 %
Case Size (EIA/JIS)	0805/2012
Rated Current (max)	90 mA
Saturation Current (max)	90 mA ( $\Delta$ L=30%)
Temperature Rise Current (max)	190 mA ( $\Delta$ T=40 $^{\circ}$ C)
DC Resistance (max)	4.81 $\Omega$
DC Resistance (typ)	3.7 $\Omega$
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 %
RoHS Compliance (10 subst.)	Yes
REACH Compliance (223 subst.)	Yes
Halogen Free	Yes
Soldering	Reflow

## ■ External Dimensions

Dimension L	2.0 $\pm$ 0.2 mm
Dimension W	1.25 $\pm$ 0.2 mm
Dimension T	1.25 $\pm$ 0.2 mm
Dimension e	0.5 $\pm$ 0.2 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 data at any time without notice.  
 Before making final selection, please check product specification.

Wire-wound Chip Power Inductors (CB series)

CB2012T470K

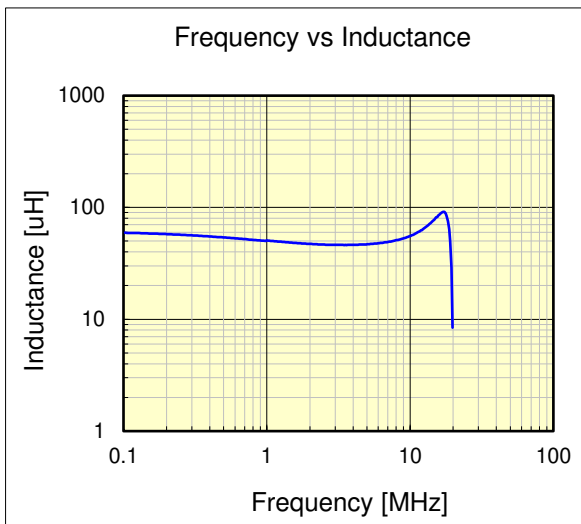
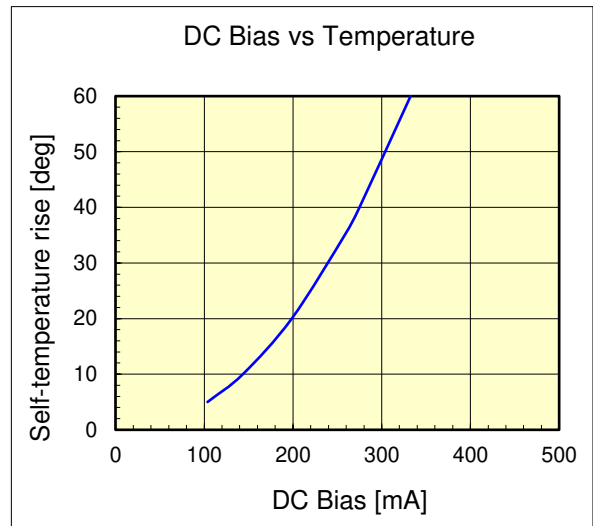
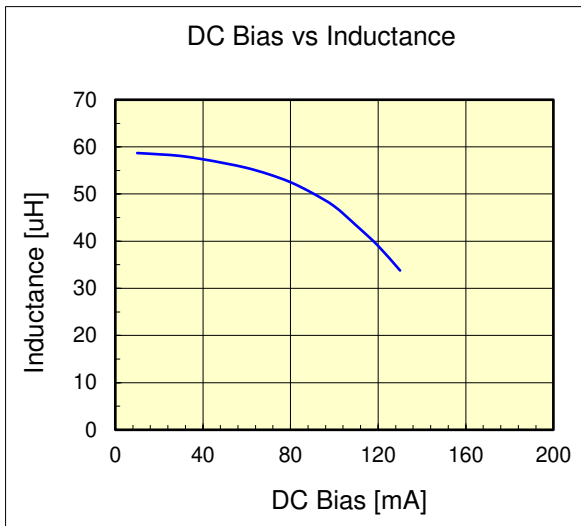


Dimension	unit : mm	unit : inch
Length :	2.0 +/- 0.2	(0.079 +/- 0.008)
Width :	1.25 +/- 0.2	(0.049 +/- 0.008)
Height :	1.25 +/- 0.2	(0.049 +/- 0.008)

Inductance :	47	uH	( test freq at 2.52MHz )
DC Resistance :	3.7 / 4.81	ohm	( typ / max )
Saturation Current :	90	mA	
Temp. rise Current :	190	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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