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

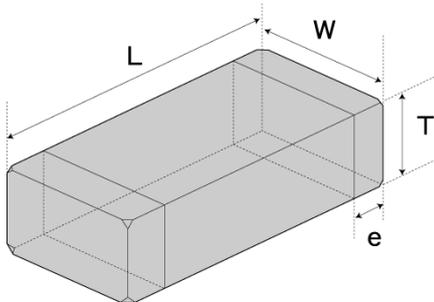# CBC2518T1R5MV

■ Features

– Item Summary

  1.5uH±20%, 0.73A, 1007/2518 (EIA/JIS)

– Lifecycle Stage

  Mass Production

– Standard packaging quantity (minimum)

  Taping Embossed 2000pcs

■ Products characteristics table

Inductance	1.5 uH ± 20 %
Case Size (EIA/JIS)	1007/2518
Rated Current (max)	0.73 A
Saturation Current (max)	0.95 A
Temperature Rise Current (max)	0.73 A
DC Resistance (max)	0.143 Ω
DC Resistance (typ)	0.11 Ω
LQ Measuring Frequency	7.96 MHz
Self Resonant Frequency (min)	80 MHz
Operating Temp. Range	-40 to +105 ℃ (Including-self-generated heat)
Temperature characteristic (Inductance change)	± 25 %
RoHS2 Compliance (10 subst.)	Yes
REACH Compliance (173 subst.)	Yes
Halogen Free	Yes
Soldering	Reflow

■ External Dimensions

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Dimension L	2.5 ±0.2 mm
Dimension W	1.8 ±0.2 mm
Dimension T	1.8 ±0.2 mm
Dimension e	0.5 ±0.2 mm

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TAIYO YUDEN

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(CB series)

CBC2518T1R5MV

Dimension	unit : mm	unit : inch
Length :	2.5 +/- 0.2	(0.098 +/- 0.008)
Width :	1.8 +/- 0.2	(0.071 +/- 0.008)
Height :	1.8 +/- 0.2	(0.071 +/- 0.008)

Inductance :   1.5   uH   (test freq at 7.96MHz)
DC Resistance : 0.11 / 0.143   ohm (typ / max)
Saturation Current :   950   mA (max)
Temp. rise Current :   730   mA (max)

Saturation current typical :   30% reduction from initial L value.
Temp rise Current typical :   Temperature will rise by 20 deg C

DC Bias vs Inductance

DC Bias vs Temperature

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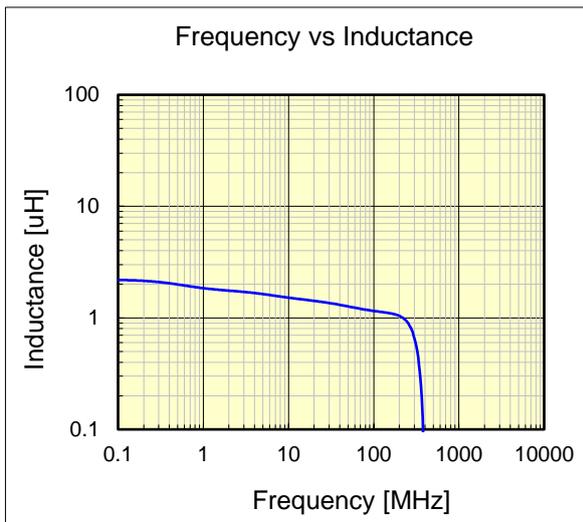
The data is reference only. Electrical characteristics vary depending on environment or measurement condition.
TAIYO YUDEN reserves the right to make change to the data at any time without notice.
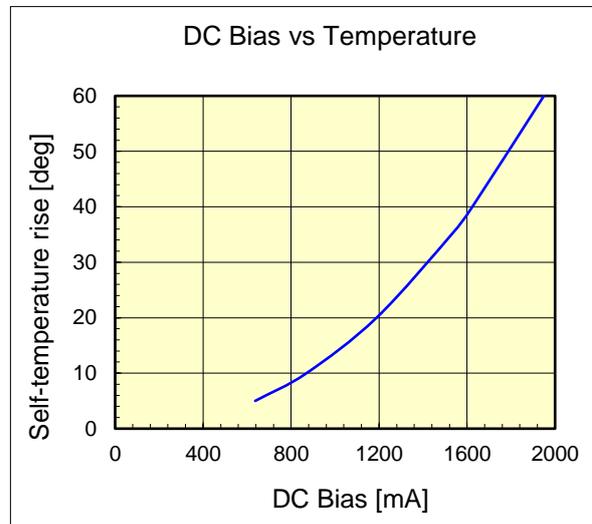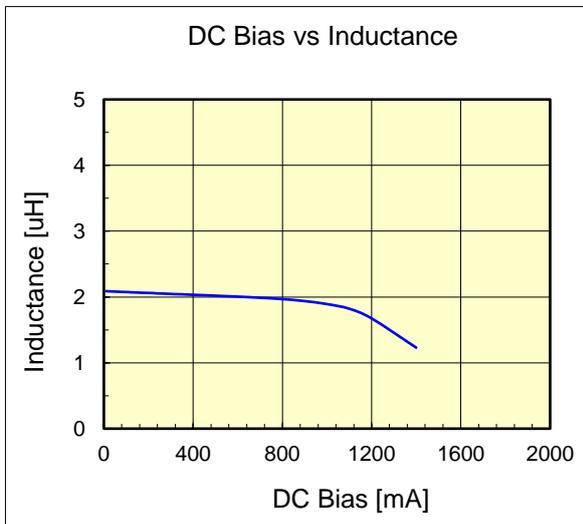*Before making final selection, please check product specification.*