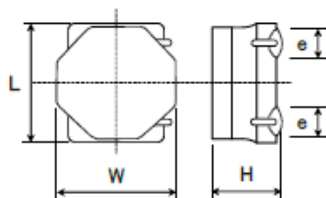


Metal Core SMD Power Inductors (MCOIL™, MD series)

MDMK4040T1R0MF



■ Features

- Item Summary
1.0uH±20%, 3.5A, 4.0x4.0x1.2mm
- Lifecycle Stage
Mass Production
- Standard packaging quantity (minimum)
Taping Embossed 1000pcs

■ Products characteristics table

Inductance	1.0 uH ± 20 %
Case Size (mm)	4.0x4.0
Rated Current (max)	3.5 A
Saturation Current (max)	5.2 A
Saturation Current (typ)	7.5 A
Temperature Rise Current (max)	3.5 A
Temperature Rise Current (typ)	4.2 A
DC Resistance (typ)	41 mΩ
DC Resistance (max)	47 mΩ
LQ Measuring Frequency	100 kHz
Operating Temp. Range	-40 to +125 °C (Including-self-generated heat)
RoHS2 Compliance (10 subst.)	Yes
REACH Compliance (168 subst.)	Yes
Soldering	Reflow

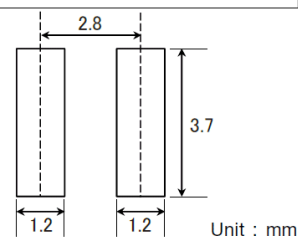
■ External Dimensions

Dimension L	4.0 ±0.2 mm
Dimension W	4.0 ±0.2 mm
Dimension H	Max 1.2 mm
Dimension e	1.1 ±0.2 mm

■ Recommended Land Patterns

【推奨ランドパターン】
実装上の注意
・実装状態を確認の上ご使用くださいようお願いいたします。
・本製品のはんだ付けはリフローはんだ工法に限ります。

【Recommended Land Patterns】
Surface Mounting
・Mounting and soldering conditions should be checked beforehand.
・Applicable soldering process to these products is reflow soldering only.



2016.05.21

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

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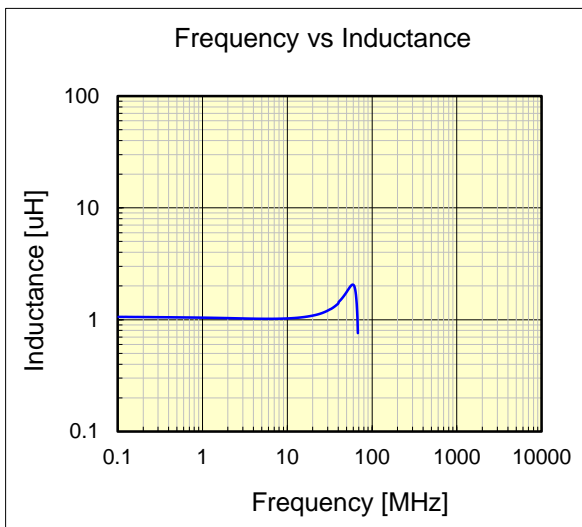
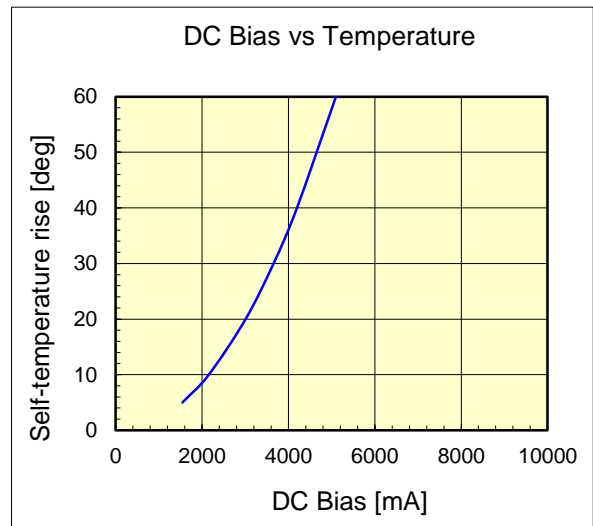
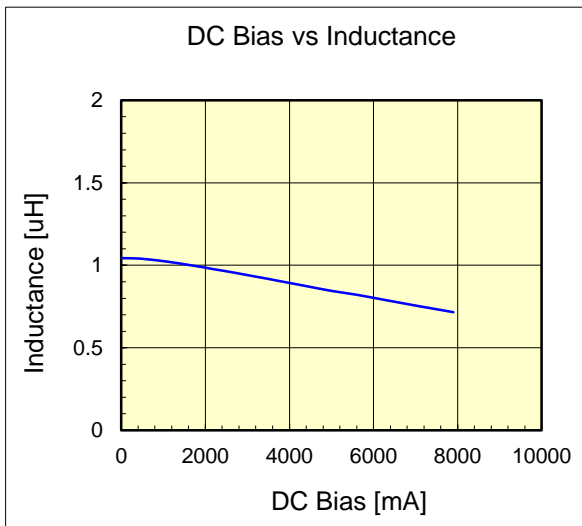
MCOIL™

MDMK4040T1R0MF



Dimension	unit : mm	unit : inch
Length :	4.0 +/- 0.2	(0.157 +/- 0.008)
Width :	4.0 +/- 0.2	(0.157 +/- 0.008)
Height :	1.2 max.	(0.047 max.)

Inductance :	1.0	uH	(test freq at 0.1MHz)
DC Resistance :	0.041 / 0.047	ohm	(typ / max)
Saturation Current :	7,500 / 5,200	mA	(typ / max)
Temp. rise Current :	4,200 / 3,500	mA	(typ / max)
Saturation current typical : 30% reduction from initial L value.			
Temp rise Current typical : Temperature will rise by 40 deg C			
Maximum rated voltage : DC 25 V			



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