

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

MDKK3030T100MM



■ Features

- Item Summary  
10uH±20%, 0.85A, 3.0x3.0x1.0mm
- Lifecycle Stage  
Mass Production
- Standard packaging quantity (minimum)  
Taping Embossed 2000pcs

■ Products characteristics table

Inductance	10 uH ± 20 %
Case Size (mm)	3.0x3.0
Rated Current (max)	0.85 A
Saturation Current (max)	1.1 A
Saturation Current (typ)	1.3 A
Temperature Rise Current (max)	0.85 A
Temperature Rise Current (typ)	1 A
DC Resistance (max)	0.575 Ω
DC Resistance (typ)	0.5 Ω
LQ Measuring Frequency	1 MHz
Operating Temp. Range	-40 to +125 °C (Including-self-generated heat)
Temperature characteristic (Inductance change)	± 10 %
RoHS2 Compliance (10 subst.)	Yes
REACH Compliance (173 subst.)	Yes
Halogen Free	Yes
Soldering	Reflow

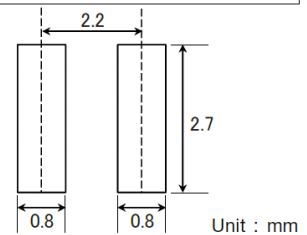
■ External Dimensions

Dimension L	3.0 ± 0.1 mm
Dimension W	3.0 ± 0.1 mm
Dimension H	Max 1.0 mm
Dimension e	0.9 ± 0.2 mm
Dimension f	1.9 ± 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。また、ご購入の際は、本製品のハンダ付けはリフローハンダ工法に限りません。

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



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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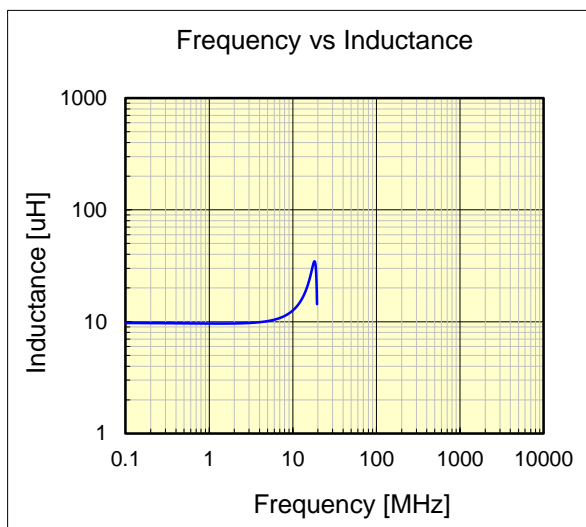
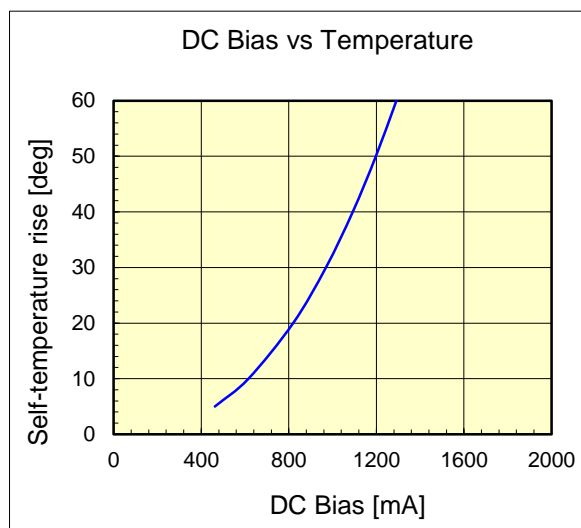
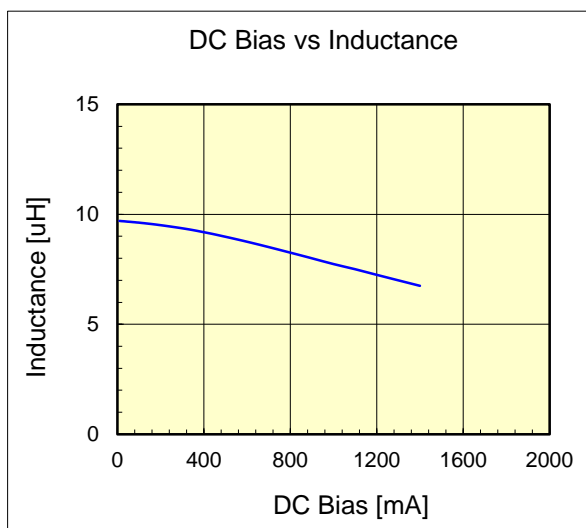
MCOIL™

**MDKK3030T100MM**



Dimension	unit : mm	unit : inch
Length :	3.0 +/- 0.1	(0.118 +/- 0.004)
Width :	3.0 +/- 0.1	(0.118 +/- 0.004)
Height :	1.0 max.	(0.039 max.)

Inductance :	10	uH	( test freq at 1MHz )
DC Resistance :	0.500 / 0.575	ohm	( typ / max )
Saturation Current :	1,300 / 1,100	mA	( typ / max )
Temp. rise Current :	1,000 / 850	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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