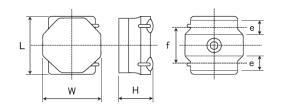
Spec Sheet

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

MDMK4040T100MM



Features

- Item Summary
 - 10uH±20%, 1.4A, 4.0x4.0x1.2mm
- Lifecycle Stage
- Mass Production
- Standard packaging quantity (minimum)
 Taping Embossed 1000pcs

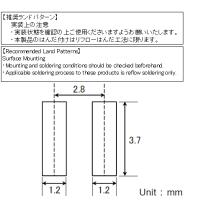
Products characteristics table

Inductance	10 uH \pm 20 %
Case Size (mm)	4.0x4.0
Rated Current (max)	1.4 A
Saturation Current (max)	1.7 A
Saturation Current (typ)	2 A
Temperature Rise Current (max)	1.4 A
Temperature Rise Current (typ)	1.6 A
DC Resistance (max)	0.33 Ω
DC Resistance (typ)	0.28 Ω
LQ Measuring Frequency	1 MHz
Operating Temp. Range	-40 to +125 ℃ (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

4.0 ±0.2 mm
4.0 ±0.2 mm
Max 1.2 mm
1.1 ±0.2 mm
2.5 ±0.2 mm

Recommended Land Patterns



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. 2017.04.30

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unit : inch

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

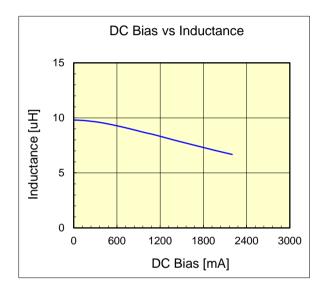
Dimension

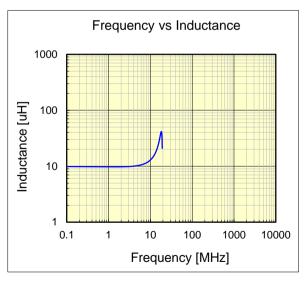
MCOIL[™] MDMK4040T100MM

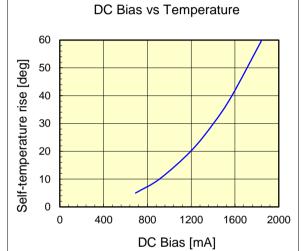


Length :	4.0	+/-	0.2	(0.157 +	/- 0.008)		
Width :	4.0	+/-	0.2	(0.157 +	/- 0.008)		
Height :	1.2		max.	(0.047	max.)		
Inductance :	10		uН	uH (test freq at 1MHz)			
DC Resistance :	0.280	/	0.330	ohm (typ / max)			
Saturation Current :	2,000	/	1,700	mA(typ / max)			
Temp. rise Current :	1,600	/	1,400	mA(typ / max)			
Saturation current	aturation current typical :			30% reduction from initial L value.			
Temp rise Current typical :		Temperature will rise by 40 deg C					
Maximum rated	Maximum rated voltage :			DC 25 V			

unit : mm







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