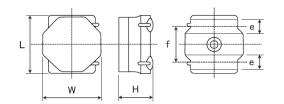
Spec Sheet

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

MDMK3030T2R2MM



Features

- Item Summary
 - 2.2uH±20%, 2.1A, 3.0x3.0x1.2mm
- Lifecycle Stage
- Mass Production
- Standard packaging quantity (minimum)
 Taping Embossed 2000pcs

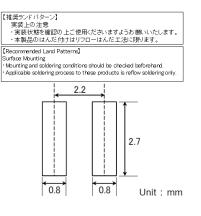
Products characteristics table

Inductance	2.2 uH ± 20 %
Case Size (mm)	3.0x3.0
Rated Current (max)	2.1 A
Saturation Current (max)	2.8 A
Saturation Current (typ)	3.6 A
Temperature Rise Current (max)	2.1 A
Temperature Rise Current (typ)	2.4 A
DC Resistance (max)	112 mΩ
DC Resistance (typ)	97 mΩ
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

3.0 ±0.1 mm
3.0 ±0.1 mm
Max 1.2 mm
0.9 ±0.2 mm
1.9 ±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

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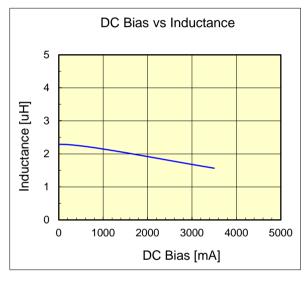
Dimension

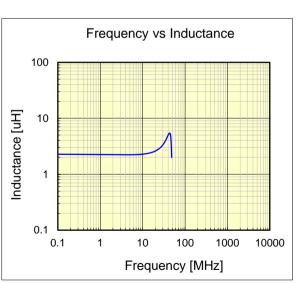
MCOIL[™] MDMK3030T2R2MM

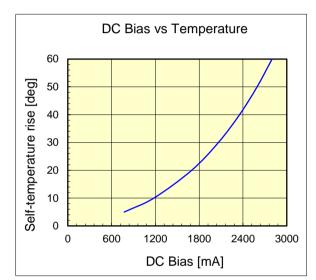


Length :	3.0 +/-0.1		(0.118 +/- 0.004)			
Width :	3.0 +/-0.1			(0.118 +/- 0.004)		
Height :	1.2	1.2 max.		(0.047	max.)	
Inductance :	2.2		uН	(test freq at 1MHz)		
DC Resistance :	0.097	/	0.112	ohm (typ / max)		
Saturation Current :	3,600	/	2,800	mA(typ / max)		
Temp. rise Current :	2,200	/	2,000	mA(typ / max)		
Saturation current typical :		30% reduction from initial L value.				
Temp rise Current	typical :	Ter	Cemperature will rise by 40 deg C			
Maximum rated	voltage :	DC	25 V			

unit : mm







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