

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

MDKK3030T3R3MM



■ Features

- Item Summary
3.3uH±20%, 1.35A, 3.0x3.0x1.0mm
- Lifecycle Stage
Mass Production
- Standard packaging quantity (minimum)
Taping Embossed 2000pcs

■ Products characteristics table

Inductance	3.3 uH ± 20 %
Case Size (mm)	3.0x3.0
Rated Current (max)	1.35 A
Saturation Current (max)	2 A
Saturation Current (typ)	2.4 A
Temperature Rise Current (max)	1.35 A
Temperature Rise Current (typ)	1.5 A
DC Resistance (max)	0.248 Ω
DC Resistance (typ)	0.215 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

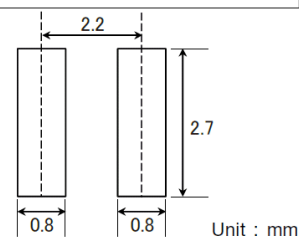
■ External Dimensions

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します。

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



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MCOIL™
MDKK3030T3R3MM



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 :	3.3	uH	(test freq at 1MHz)
DC Resistance :	0.230 / 0.265	ohm	(typ / max)
Saturation Current :	2,400 / 2,000	mA	(typ / max)
Temp. rise Current :	1,450 / 1,250	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			

