

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

### MDKK1616T100MM



#### ■ Features

- Item Summary  
10uH±20%, 0.45A, 1.64x1.64x1.0mm
- Lifecycle Stage  
Mass Production
- Standard packaging quantity (minimum)  
Taping Embossed 2500pcs

#### ■ Products characteristics table

Inductance	10 uH ± 20 %
Case Size (mm)	1.64x1.64
Rated Current (max)	0.45 A
Saturation Current (max)	0.55 A
Saturation Current (typ)	0.8 A
Temperature Rise Current (max)	0.45 A
Temperature Rise Current (typ)	0.5 A
DC Resistance (max)	1.12 Ω
DC Resistance (typ)	0.97 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	1.64 ± 0.1 mm
Dimension W	1.64 ± 0.1 mm
Dimension H	Max 1.0 mm
Dimension e	0.4 + 0.2/-0.1 mm
Dimension f	1.0 ± 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す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.

