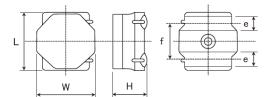
## **Spec Sheet**

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

# MDKK2020T100MM



#### Features

- Item Summary
   10uH±20%, 0.63A, 2.0x2.0x1.0mm
- Lifecycle Stage
   Mass Production
- Standard packaging quantity (minimum)

Taping Embossed 2500pcs

#### ■ Products characteristics table

Inductance	10 uH ± 20 %
Case Size (mm)	2.0x2.0
Rated Current (max)	0.63 A
Saturation Current (max)	0.75 A
Saturation Current (typ)	0.9 A
Temperature Rise Current (max)	0.63 A
Temperature Rise Current (typ)	0.68 A
DC Resistance (max)	0.69 Ω
DC Resistance (typ)	0.6 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

Dimension L	2.0 ±0.15 mm
Dimension W	2.0 ±0.15 mm
Dimension H	Max 1.0 mm
Dimension e	0.5 ±0.2 mm
Dimension f	1.25 ±0.2 mm

### Recommended Land Patterns



2017.04.30

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

MCOIL™

MDKK2020T100MM



Dimension unit: mm unit: inch

Length: 2.0 +/- 0.15 (0.079 +/- 0.006)

Width: 2.0 +/- 0.15 (0.079 +/- 0.006)

Height: 1.0 max. (0.039 max.)

Inductance: 10 (test freq at 1MHz) uН DC Resistance: 0.600 0.690 ohm (typ/max) Saturation Current: 900 750 / mA (typ/max) Temp. rise Current: 680 / 630 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

