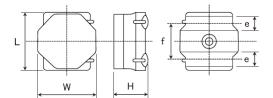
Spec Sheet

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

MDKK3030T6R8MM



Features

- Item Summary 6.8uH±20%, 1A, 3.0x3.0x1.0mm
- Lifecycle Stage
 Mass Production
- Standard packaging quantity (minimum)
 Taping Embossed 2000pcs

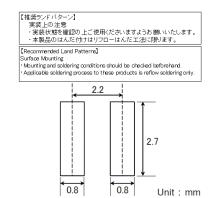
■ Products characteristics table

Inductance	6.8 uH ± 20 %
Case Size (mm)	3.0x3.0
Rated Current (max)	1 A
Saturation Current (max)	1.4 A
Saturation Current (typ)	1.7 A
Temperature Rise Current (max)	1 A
Temperature Rise Current (typ)	1.15 A
DC Resistance (max)	0.437 Ω
DC Resistance (typ)	0.38 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	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



2017.04.30

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

MCOIL[™]
MDKK3030T6R8MM



 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: 6.8 uH (test freq at 1MHz)
DC Resistance: 0.380 / 0.437 ohm (typ/max)
Saturation Current: 1,700 / 1,400 mA (typ/max)
Temp. rise Current: 1,150 / 1,000 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

