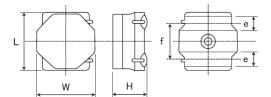
Spec Sheet

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

MDWK4040T6R8MM



Features

- Item Summary 6.8uH±20%, 2A, 4.0x4.0x2.0mm
- Lifecycle Stage
 Mass Production
- Standard packaging quantity (minimum)
 Taping Embossed 700pcs

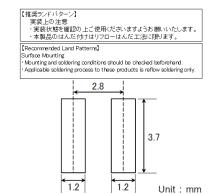
■ Products characteristics table

Inductance	6.8 uH ± 20 %
Case Size (mm)	4.0x4.0
Rated Current (max)	2 A
Saturation Current (max)	2.9 A
Saturation Current (typ)	4 A
Temperature Rise Current (max)	2 A
Temperature Rise Current (typ)	2.3 A
DC Resistance (max)	0.158 Ω
DC Resistance (typ)	0.138 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	4.0 ±0.2 mm
Dimension W	4.0 ±0.2 mm
Dimension H	Max 2.0 mm
Dimension e	1.1 ±0.2 mm
Dimension f	2.5 ±0.2 mm

Recommended Land Patterns



2017.04.30

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

MCOIL™ MDWK4040T6R8MM



Dimension unit: mm unit: inch

Length: 4.0 +/- 0.2 (0.157 +/- 0.008)

Width: 4.0 +/- 0.2 (0.157 +/- 0.008)

Height: 2.0 max. (0.079 max.)

Inductance: 6.8 uH (test freq at 1MHz)
DC Resistance: 0.138 / 0.158 ohm (typ/max)
Saturation Current: 4,000 / 2,900 mA (typ/max)
Temp. rise Current: 2,300 / 2,000 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

