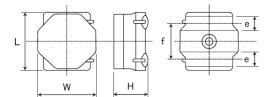
Spec Sheet

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

MDWK4040TR33NM



Features

- Item Summary
 0.33uH±30%, 7.8A, 4.0x4.0x2.0mm
- Lifecycle Stage
 Mass Production
- Standard packaging quantity (minimum)
 Taping Embossed 700pcs

Products characteristics table

Inductance	0.33 uH ± 30 %
Case Size (mm)	4.0x4.0
Rated Current (max)	7.8 A
Saturation Current (max)	16 A
Saturation Current (typ)	21 A
Temperature Rise Current (max)	7.8 A
Temperature Rise Current (typ)	8.8 A
DC Resistance (max)	13 mΩ
DC Resistance (typ)	11 mΩ
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)

 $MCOIL^{TM}$ MDWK4040TR33NM



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 : 0.33 (test freq at 1MHz) иΗ DC Resistance: 0.011 / 0.013 ohm (typ/max) Saturation Current: 21,000 / 16,000 mA (typ/max) Temp. rise Current: 8,800 / 7,800 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

