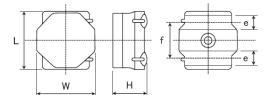
Spec Sheet

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

MDMK2020T1R5MM



Features

- Item Summary
 1.5uH±20%, 1.65A, 2.0x2.0x1.2mm
- Lifecycle Stage
 Mass Production
- Standard packaging quantity (minimum)

Taping Embossed 2500pcs

Products characteristics table

Inductance	1.5 uH ± 20 %
Case Size (mm)	2.0x2.0
Rated Current (max)	1.65 A
Saturation Current (max)	2 A
Saturation Current (typ)	2.3 A
Temperature Rise Current (max)	1.65 A
Temperature Rise Current (typ)	1.75 A
DC Resistance (max)	86 mΩ
DC Resistance (typ)	75 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	$2.0 \pm 0.15 \text{ mm}$
Dimension W	2.0 ±0.15 mm
Dimension H	Max 1.2 mm
Dimension e	0.5 ±0.2 mm
Dimension f	1.25 ±0.2 mm

Recommended Land Patterns



2017.04.30

The data is reference only. Electrical characteristics vary depending on environment or measurement condition. TAIYO YUDEN reserves the right to make change to the Date at any time without notice.

Before making final selection, please check product specification.

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

MCOIL[™]
MDMK2020T1R5MM



Dimension unit: mm unit: inch

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

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

Height: 1.2 max. (0.047 max.)

Inductance: 1.5 uH (test freq at 1MHz)
DC Resistance: 0.075 / 0.086 ohm (typ/max)
Saturation Current: 2,300 / 2,000 mA (typ/max)
Temp. rise Current: 1,750 / 1,650 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

