#### **Spec Sheet**

## Metal Core Wire-wound Chip Power Inductors (MCOIL™, MA series)

## MAKK2016TR24M

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#### Features

- Item Summary
   0.24uH±20%, 3A, 0806/2016 (EIA/JIS)
- Lifecycle Stage
   Mass Production
- Standard packaging quantity (minimum)
   Taping Embossed 3000pcs

#### ■ Products characteristics table

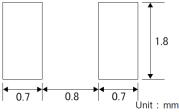
Inductance	0.24 uH ± 20 %
Case Size (EIA/JIS)	0806/2016
Rated Current (max)	3 A
Saturation Current (max)	4.2 A (⊿L=30%)
Saturation Current (typ)	5 A (⊿L=30%)
Temperature Rise Current (max)	3 A (⊿T=40°C)
Temperature Rise Current (typ)	3.3 A (⊿T=40℃)
DC Resistance (max)	37 mΩ
DC Resistance (typ)	31 mΩ
LQ Measuring Frequency	2 MHz
Operating Temp. Range	-40 to +105 ℃ (Including-self-generated heat)
Temperature characteristic (Inductance change)	± 15 %
RoHS2 Compliance (10 subst.)	Yes
REACH Compliance (181 subst.)	Yes
Halogen Free	Yes
Soldering	Reflow

#### External Dimensions

Dimension L	2.0 ±0.1 mm
Dimension W	1.6 ±0.1 mm
Dimension T	Max 1.0 mm
Dimension e	0.5 ±0.3 mm

#### Recommended Land Patterns





2019.01.15

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MCOIL™

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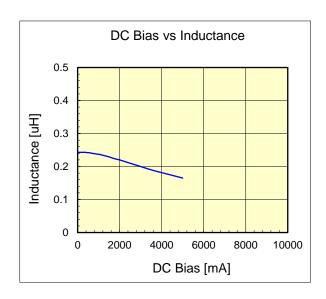
Dimension unit: mm unit: inch

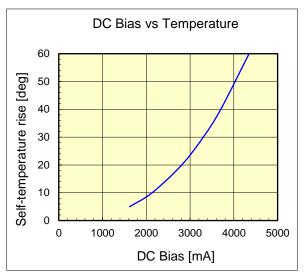
Length: 2.0 +/- 0.1 (0.079 +/- 0.004)

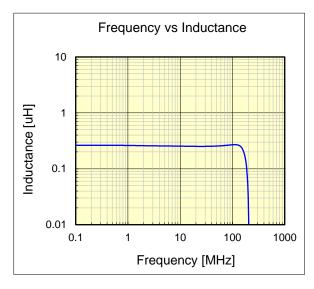
Width: 1.6 +/- 0.1 (0.063 +/- 0.004)

Height: 1.0 max. (0.039 max.)

Inductance: 0.24 uH (test freq at 2MHz)
DC Resistance: 0.031 / 0.037 ohm (typ/max)
Saturation Current: 5,000 / 4,200 mA (typ/max)
Temp. rise Current: 3,300 / 3,000 mA (typ/max)
Saturation current typical: 30% reduction from initial L value.
Temp rise Current typical: Temperature will rise by 40 deg C







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Please do not incorporate our products into any equipment requiring high levels of safety and/or reliability (e.g., aerospace equipment, aviation equipment\*, medical equipment classified as Class IV by IMDRF, nuclear control equipment, undersea equipment, military equipment).

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