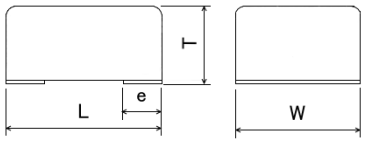
Spec Sheet

Inductors

MEKK2016H1R0M



Features

- Item Summary

  1.0uH±20%, 3.5A, 0806/2016 (EIA/JIS)

- Lifecycle Stage

  New PN available

- Standard packaging quantity (minimum)

  Taping Embossed 3000pcs

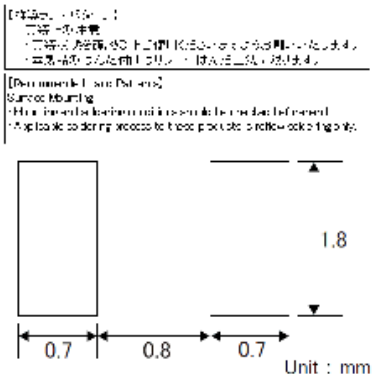
Products characteristics table

Inductance	1.0 uH ± 20 %
Case Size (EIA/JIS)	0806/2016
Rated Current (max)	3.5 A
Saturation Current (max)	4 A (⊿L=30%)
Saturation Current (typ)	4.5 A (⊿L=30%)
Temperature Rise Current (max)	3.5 A (⊿T=40℃)
Temperature Rise Current (typ)	3.7 A (⊿T=40℃)
DC Resistance (max)	48 mΩ
DC Resistance (typ)	41 mΩ
LQ Measuring Frequency	1 MHz
Operating Temp. Range	-40 to +125 ℃ (Including-self-generated heat)
Temperature characteristic (Inductance change)	± 15 %
RoHS Compliance (10 subst.)	Yes
REACH Compliance (223 subst.)	Yes
Halogen Free	Yes
Soldering	Reflow

External Dimensions

Dimension L	2.0 ±0.2 mm
Dimension W	1.6 ±0.2 mm
Dimension T	Max 1.0 mm
Dimension e	0.5 ±0.3 mm

Recommended Land Patterns



2022.06.01

The data is reference only. Electrical characteristics vary depending on environment or measurement condition.
TAIYO YUDEN reserves the right to make change to the data at any time without notice.
Before making final selection, please check product specification.

Metal Wire-wound Chip Power Inductors (MCOIL™, ME series H (High Spec.) type)

MCOIL™

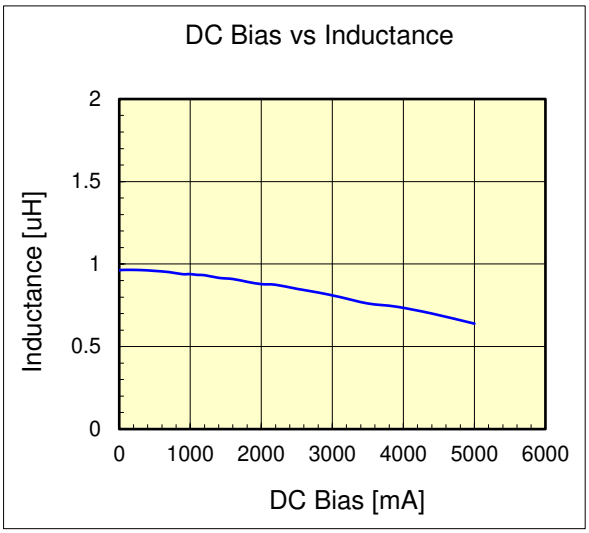
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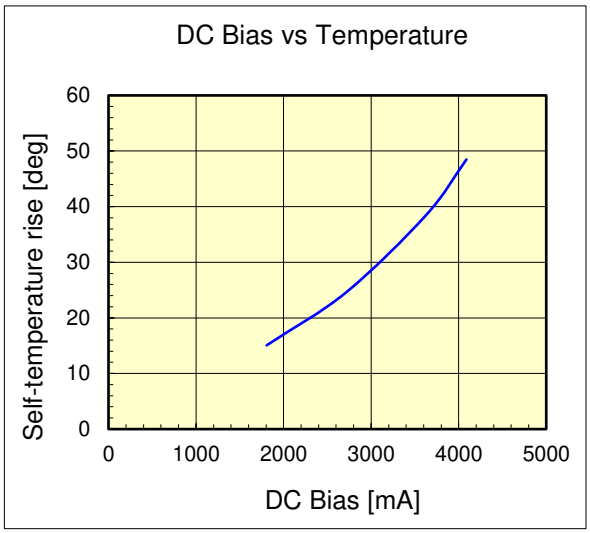


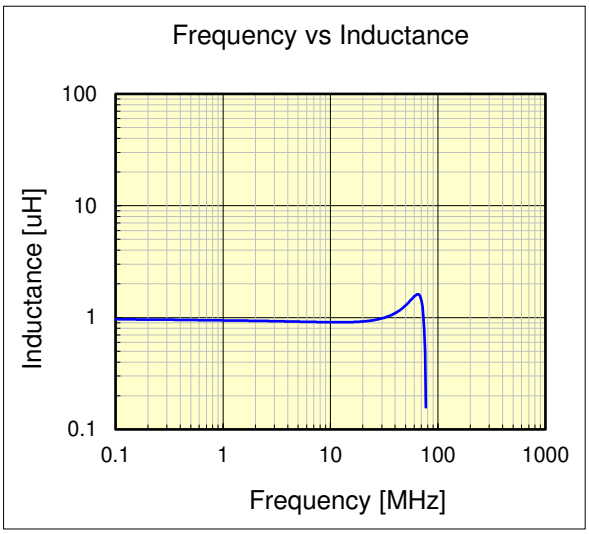
Dimension	unit : mm	unit : inch
Length :	2.0 +/- 0.2	(0.079 +/- 0.008)
Width :	1.6 +/- 0.2	(0.063 +/- 0.008)
Height :	1.0 max.	(0.039 max.)

Inductance :	1.0	uH	(test freq at 1MHz)
DC Resistance :	0.041 / 0.048		ohm (typ / max)
Saturation Current :	4,500 / 4,000		mA (typ / max)
Temp. rise Current :	3,700 / 3,500		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 read this notice before using the TAIYO YUDEN products.

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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).
  When our products are used even for high safety and/or reliability-required devices or circuits of general electronic equipment, it is strongly recommended to perform a thorough safety evaluation prior to use of our products and to install a protection circuit as necessary.
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