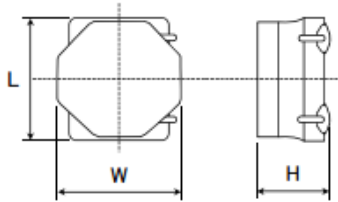


Spec Sheet

Metal Core SMD Power Inductors for Automotive / Industrial Applications (MCOIL(TM), MD series)

MDMK4040T1R5MFV



■ Features

- Item Summary
1.5 μ H ($\pm 20\%$)
- Lifecycle Stage
Mass Production
- AEC-Q200 qualified
- Standard packaging quantity (minimum)
Taping 1000pcs

■ Products characteristics table

| | |
|--------------------------------|----------------------------|
| CaseSize (EIA/JIS) | -/4040 |
| Inductance | 1.5 μ H ($\pm 20\%$) |
| Inductance Measuring Frequency | 100kHz |
| DC Resistance (max) | 0.065 Ω |
| Avg. of DC Resistance | 0.056 Ω |
| RoHS Compliance | Yes |
| Halogen Free | Yes |
| Soldering Method | Reflow |

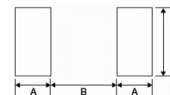
■ External Dimensions

| | |
|---|-----------------|
| L | 4mm ± 0.2 |
| W | 4mm ± 0.2 |
| H | 1.2mm max |
| e | 1.1mm ± 0.2 |

■ Recommended Land Patterns

【推奨ランドパターン】
実装上の注意
・実装仕様を確認の上ご使用ください。また、本製品ははんだ付はリフローはんだ工法に限ります。

【Recommended Land Pattern】
Surface Mounting
*Mounting and soldering conditions should be checked beforehand.
*Applicable soldering process to these products is reflow soldering only.



Metal Core SMD Power Inductors (MCOIL_{TM}, MD series)

| Type | A | B | C |
|------|------|------|------|
| 1616 | 0.50 | 0.60 | 1.65 |
| 2020 | 0.65 | 0.70 | 2.00 |
| 3030 | 0.80 | 1.40 | 2.70 |
| 4040 | 1.20 | 1.60 | 3.70 |
| 5050 | 1.50 | 2.10 | 4.00 |

unit:mm

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.

2015.02.25