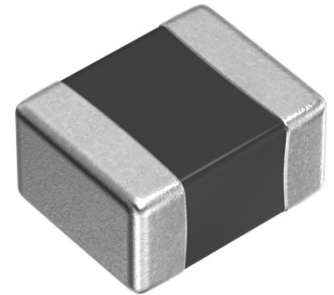


TFM201610ALMA-KIT

Thin-film Automotive Power Inductor Sample Kit

PRODUCT HIGHLIGHTS

- Thin-film power inductors with metal core
- Excellent DC bias characteristics
- Low magnetic leakage flux
- Excellent mounting stability characteristics and can be mounted to general-purpose land patterns
- Dimensions: 2.0 x 1.6 x 1.0 mm
- Operating temperature range of -55°C to +150°C
- Compliant with AEC-Q200



APPLICATION EXAMPLES

- ADAS ECU, in-vehicle camera (view camera, sensing camera), radar, meter cluster, automotive communication module
- Other power supply circuit uses

DESIGN RESOURCES

- [TFM201610ALMA Datasheet](#)
- [TFM Series Power Inductor Product Overview](#)
- [Selection Guide - Inductors for Power Circuits \(Automotive Grade\)](#)
- [Application Note - How to Use Power Inductors](#)
- [Product Overview – High frequency power inductors for automotive applications designed for outstanding reliability to reduce failure risks](#)

TFM201610LAMA-KIT Contents

| TDK Part Number | Description | Quantity |
|----------------------|-------------------------|----------|
| TFM201610ALMAR24MTAA | 240nH ±20%, 6.5A, 23mΩ | 10 pcs |
| TFM201610ALMAR33MTAA | 330nH ±20%, 5.8A, 31mΩ | 10 pcs |
| TFM201610ALMAR47MTAA | 470nH ±20%, 5.0A, 39mΩ | 10 pcs |
| TFM201610ALMA1R0MTAA | 1μH ±20%, 3.7A, 60mΩ | 10 pcs |
| TFM201610ALMA1R5MTAA | 1.5μH ±20%, 3.1A, 110mΩ | 10 pcs |
| TFM201610ALMA2R2MTAA | 2.2μH ±20%, 2.2A, 152mΩ | 10 pcs |

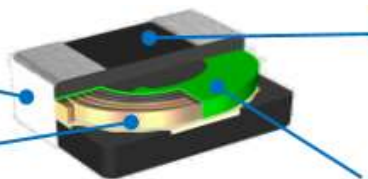
Product Structure

Terminal electrode

- Resin electrode (conductive resin layer + plating)

Coil conductor

- Formed by Cu plating, making miniaturization possible.
- Plating allows the conductor height to be changed, for high flexibility in design.



Metallic magnetic material

- Outstanding DC superimposition characteristics are achieved by high saturation magnetic flux density.

Insulating film

- The coil conductor surface is covered by an insulating film with high withstand voltage.
- Application of thin-film processing methods allows the formation of insulating films with high dimensional precision.