

MDTA Series

Flat Wire Molded Inductor Size 5050



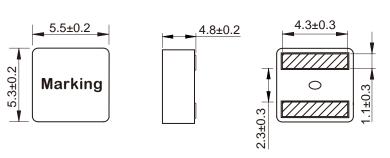
FEATURES

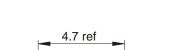
- Flat wire coil for low copper losses
- Composoite core material allows high satura on currents
- Very low acous c noise and very low leakage flux noise
- High current capability and handles high transient current spikes
- AEC-Q200 qualified
- Opera ng temperature -55 to +155°C (Including self temperature rise)
- Quan ty: 1500pcs

APPLICATION

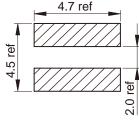
- DC/DC converters for entertainment/naviga on systems
 Noise suppression for motors: windshield wipers / power seats/ power mirrors / hea ng and ven la on blowers / HID ligh ng
- LED drivers

Dimensions: [mm]





Land Pattern: [mm]



Electrical Properties:

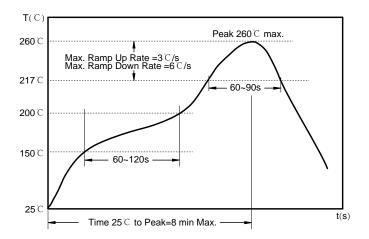
| MDTA5050-5R6M | 5.6 | ±20% | 8.6 | 5.3 | 7.2 | 24.20 |
|---------------|-----|------|-----|-----|-----|-------|
| MDTA5050-6R8M | 6.8 | ±20% | 7.8 | 4.8 | 6.4 | 28.60 |
| MDTA5050-8R2M | 8.2 | ±20% | 7.2 | 4.6 | 6.1 | 32.50 |
| MDTA5050-100M | 10 | ±20% | 6.5 | 3.8 | 5.0 | 43.00 |
| MDTA5050-150M | 15 | ±20% | 3.7 | 3.0 | 3.9 | 76.70 |

Saturation Current will cause L to drop approximately 30%

Temperature Rise Current that causes the specified temperature rise from 25°C ambient.



Soldering Reflow:



Preheat condition: 150 ~200 °C / 60~120 sec.

Allowed time above 217°C: 60~90 sec.

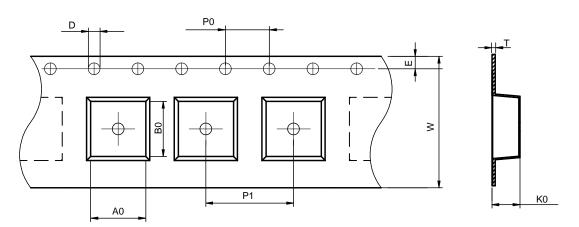
Max temperature: 260 °C.

Max time at max temperature: 10 sec.

Allowed Reflow time: 2x max.

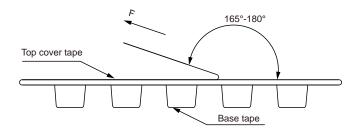
Packaging Information:

Tape Dimension:



| Series | A0 (mm) | B0 (mm) | D (mm) | P0 (mm) | P1 (mm) | W (mm) | K0 (mm) | E (mm) | T (mm) |
|----------|------------|------------|-----------|------------|------------|-----------|------------|-----------|-----------|
| MDTA5050 | 6.0±0.1 | 5.7±0.1 | 1.5±0.1 | 4.0±0.1 | 8.0±0.1 | 16.0±0.3 | 5.3±0.1 | 1.75±0.1 | 0.40±0.05 |

Peel force of top cover tape:



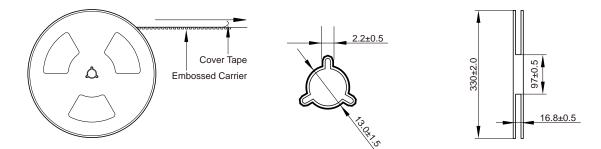
The peel force of top cover tape shall be between 0.1 to 1.3 N

Product Marking:

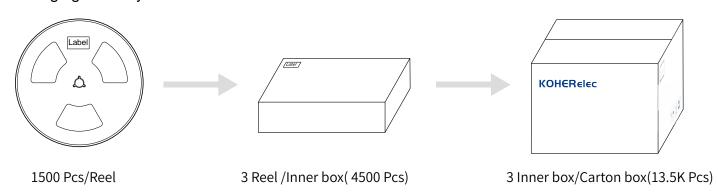
| Marking | Printing (Inductance) |
|---------|-----------------------|
|---------|-----------------------|



Reel Dimension: [mm]



Packaging Quantity:



Cautions and Warnings:

Storage Conditions:

- The storage period is within 12 months after the completion of production. Be sure to follow the storage conditions (temperature: -5 to 35°C, humidity: 75% RH Max). If the storage period elapses, the soldering of the terminal electrodes may deteriorate. The warranty period is one year.
- Product should not be exposed to environment with high temperature, high humidity, dust, corrosive gas and etc.
- Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- Please always handle products carefully to prevent any damage caused by dropping down or inappropriate removing.

Operation Instructions:

- Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.
- Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- Generally, Koher might not be familiar with either customer's specific application or actual requests as customer
 does.As a result customer shall be responsible for checking and confirming whether Koher product with the
 performance described in the product specification is suitable for using in customer's particular application or
 not.