

MDTE Series

Wire Wound Molded SMD Power Inductors Size 5030

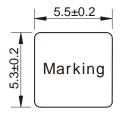
FEATURES

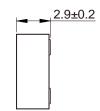
- So satura on
- High current, low DCR, high e ciency
- Very low acous c noise and very low leakage flux noise
- High reliability
- 100% Lead(Pb)-Free and RoHS compliant
- Opera ng temperature -55~+125 °C (Induding self temperature rise)
- Quan ty: 2000pcs

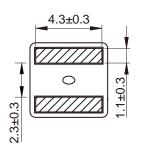


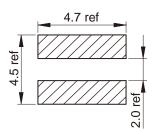
- Note PC power system, ind. IMVP-6
- DC/DC converter

Dimensions: [mm]









Land Pattern: [mm]

Electrical Properties:

Part No	Inductance @ 100KHz/0.1V	Tolerance	Current Typ.	Current Max.	Temperature Rise Current Typ.	DC Resistance Max.
MDTE5030-R15M	0.15	±20%	36.0	32.5	22.2	2.31
MDTE5030-R16M	0.16	±20%	35.0	32.0	22.2	2.33
MDTE5030-R33M	0.33	±20%	28.0	26.0	19.2	3.52
MDTE5030-R47M	0.47	±20%	26.0	24.0	18.4	4.13
MDTE5030-R56M	0.56	±20%	22.2	20.2	17.7	4.52
MDTE5030-R60M	0.60	±20%	22.0	20.0	17.7	4.52
MDTE5030-R80M	0.80	±20%	20.0	18.0	13.1	5.65
MDTE5030-R82M	0.82	±20%	19.7	17.6	129	5.78
MDTE5030-1ROM	1.00	±20%	16.5	14.3	12.2	7.60
MDTE5030-1R2M	1.20	±20%	15.0	13.5	11.0	9.70
MDTE5030-1R5M	1.50	±20%	14.0	125	10.5	11.
MDTE5030-1R8M	1.80	±20%	123	11.3	10.1	2
MDTE5030-2R2M	2.20	±20%	10.0	9.00	9.70	
MDTE5030-3R3M	3.30	±20%	9.50	8.70	8.10	
MDTE5030-4R7M	4.70	±20%	8.20	7.00	5.90	8. 2

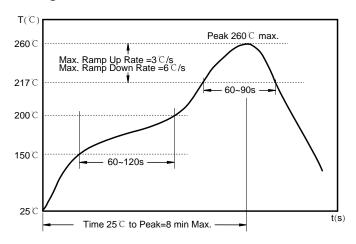
Saturation Current will cause L to drop approximately 30

Temperature Rise Current: The actual value of DC current when the temperature rise is △T=40°C

11.0



Soldering Reflow:



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

Allowed time above 217°C: 60~90 sec.

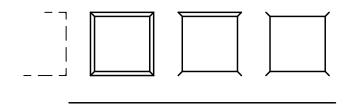
Max temperature: 260 ℃.

Max time at max temperature: 10 sec.

Allowed Reflow time: 2x max.

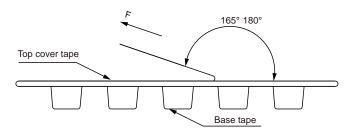
Packaging Information:

Tape Dimension:



Series	A0 mm	B0 mm	D mm	P0 mm	P1 mm	W mm	K0 mm	E mm	T mm
MDTE5030	6.0±0.1	5.7±0.1	1.5±0.1	4.0±0.1	8.0±0.1	16.0±0.3	3.3±0.1	1.75±0.1	0.35±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:

te

ald be sufficient

et so that the xceed 150°C.

rmined in the specifical may occur.

or actual requests as customer ether Koher product with the tomers particular application or