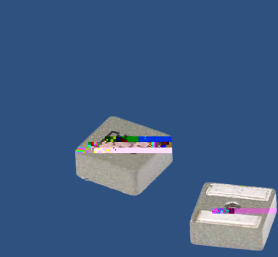


MDTE Series
Wire Wound Molded SMD Power Inductors
Size 6030



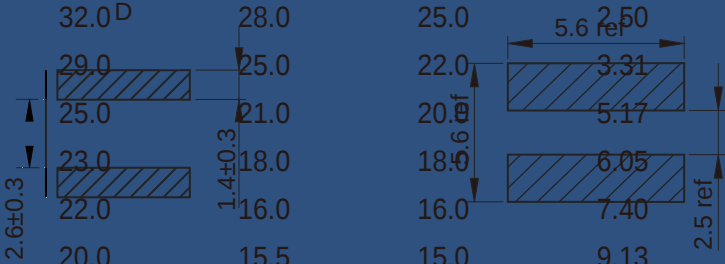
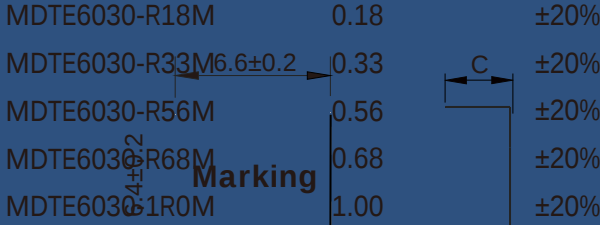
FEATURES

- So saturation
- High current,low DCR,high efficiency
- Very low acoustic noise and very low leakage flux noise
- High reliability
- 100% Lead(Pb)-Free and RoHS compliant
- Operating temperature -55~+125 °C (Including self - temperature rise)
- Quantity: 1000pcs

APPLICATION

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

			Inductance		DCR		Saturation	
			(A)	(A)	(A)	(mΩ)	(mm)	
MDTE6030-R18M	0.18	±20%	40.0	36.0	32.0	1.75	2.8±0.2	
MDTE6030-R33M	0.33	±20%	32.0 ^D	28.0	25.0	2.50	2.8±0.2	
MDTE6030-R56M	0.56	±20%	29.0	25.0	22.0	3.31	2.8±0.2	
MDTE6030-R68M	0.68	±20%	25.0	21.0	20.0 ^{ref}	5.17	2.8±0.2	
MDTE6030-1R0M	1.00	±20%	23.0	18.0	18.0 ^{ref}	6.05	2.8±0.2	
MDTE6030-1R2M	1.20	±20%	22.0	16.0	16.0	7.40	2.8±0.2	
MDTE6030-1R5M	1.50	±20%	20.0	15.5	15.0	9.13	2.9±0.2	
MDTE6030-2R2M	2.20	±20%	18.2	13.0	14.0	10.2	2.9±0.2	
MDTE6030-2R2M	2.20	±20%	15.9	11.0	10.0	12.2	2.9±0.2	
MDTE6030-3R3M	3.30	±20%	12.2	9.00	8.00	20.8	2.9±0.2	
MDTE6030-4R5M	4.50	±20%	10.0	8.00	7.00	25.3	2.9±0.2	



Electrical Properties:

MDTE6030-1R0M	1.00	±20%	23.0	18.0	18.0 ^{ref}	6.05	2.8±0.2
MDTE6030-1R2M	1.20	±20%	22.0	16.0	16.0	7.40	2.8±0.2
MDTE6030-1R5M	1.50	±20%	20.0	15.5	15.0	9.13	2.9±0.2
MDTE6030-2R2M	2.20	±20%	18.2	13.0	14.0	10.2	2.9±0.2
MDTE6030-2R2M	2.20	±20%	15.9	11.0	10.0	12.2	2.9±0.2
MDTE6030-3R3M	3.30	±20%	12.2	9.00	8.00	20.8	2.9±0.2
MDTE6030-4R5M	4.50	±20%	10.0	8.00	7.00	25.3	2.9±0.2

Saturation Current will cause L to drop approximately 30%
Temperature Rise Current: The actual value of DC current when the temperature rise is $\Delta T=40^{\circ}\text{C}$

Soldering Reflow:

Preheat condition: 150 ~200℃ / 60~120 sec.

Allowed time above 217℃ : 60~90 sec.

Max temperature: 260℃.

Max time at max temperature: 10 sec.

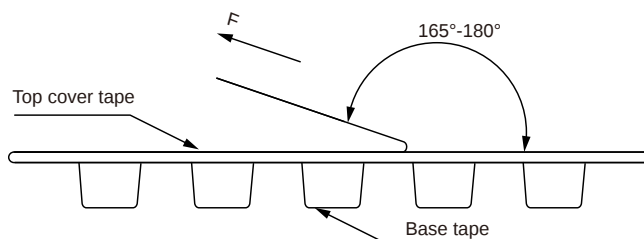
Allowed Reflow time: 2x max.

Packaging Information:

Tape Dimension:

Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
MDTE6030	7.0 ± 0.1	6.8 ± 0.1	1.5 ± 0.1	4.0 ± 0.1	12.0 ± 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



Reel Dimension: [mm]



Packaging Quantity:

