

MDTA Series

Flat Wire Molded Inductor

Size 7020



FEATURES

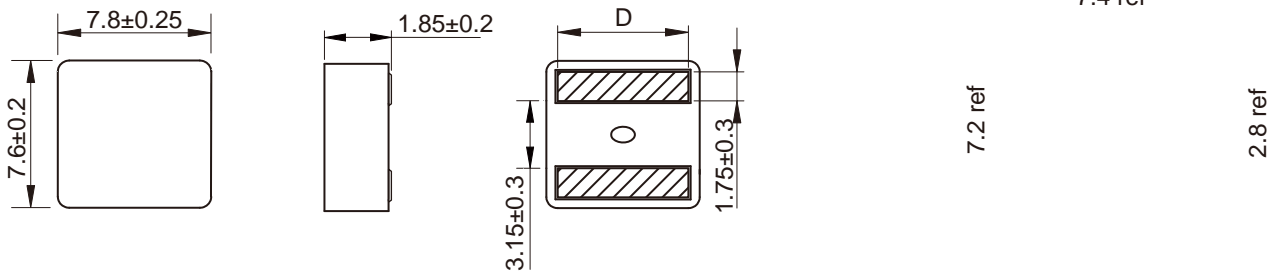
- Flat wire coil for low copper losses
- Composite core material allows high saturation currents
- Very low acoustic noise and very low leakage flux noise
- High current capability and handles high transient current spikes
- AEC-Q200 qualified
- Operating temperature -55 to +155°C (Including self - temperature rise)
- Quantity: 2000pcs

APPLICATION

- DC/DC converters for entertainment/navigation systems
- Noise suppression for motors: windshield wipers / power seats / power mirrors / heating and ventilation blowers / HID lighting
- LED drivers

Dimensions: [mm]

Land Pattern: [mm]



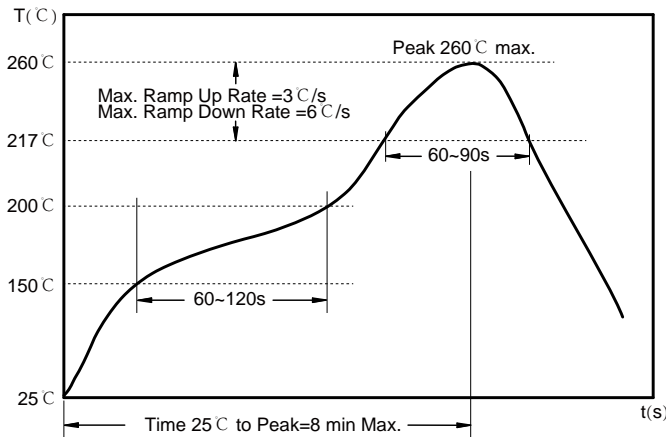
Electrical Properties:

Part No	L@100KHz /0.1V	Tolerance	I _{SAT} Typ.	I _R		R _{DC} Max.	D
				20°C rise	40°C rise		
MDTA7020-R27M	0.27	±20%	35	16	21	3.5	6.6±0.3
MDTA7020-R31M	0.31	±20%	34	14	20	4.8	6.2±0.3
MDTA7020-R33M	0.33	±20%	34	13	19	4.8	6.2±0.3
MDTA7020-R47M	0.47	±20%	28	12	17	6.2	6.2±0.3
MDTA7020-R68M	0.68	±20%	25	10	13	9.2	6.2±0.3
MDTA7020-1R0M	1.00	±20%	23	8	11	10.8	6.2±0.3

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.

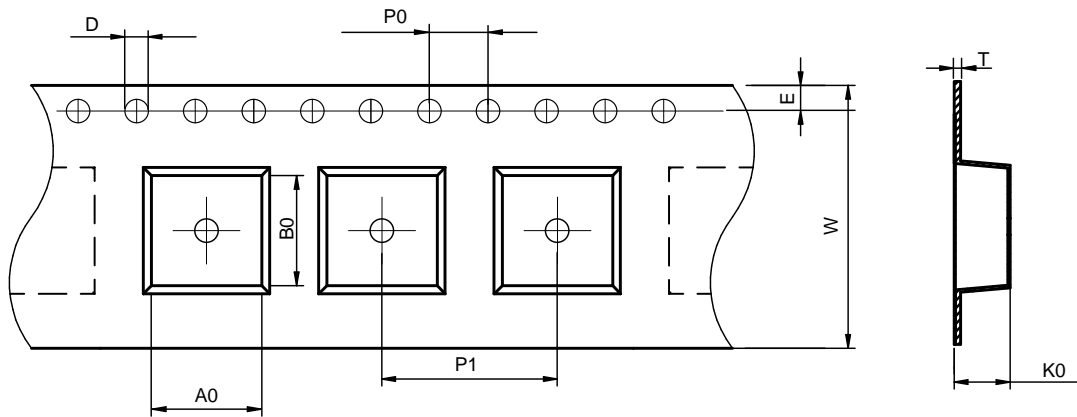
Max temperature: 260°C .

Max time at max temperature: 10 sec.

Allowed Reflow time: 2x max.

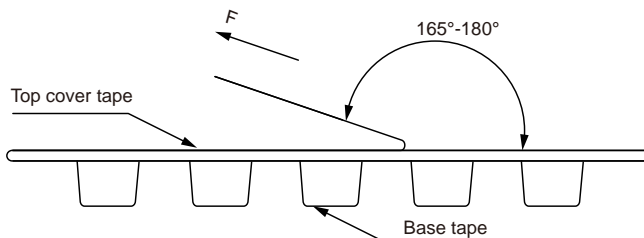
Packaging Information:

Tape Dimension :



Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
MDTA7020	8.2±0.1	8.0±0.1	1.5±0.1	4.0±0.1	12.0±0.1	16.0±0.3	2.3±0.1	1.75±0.1	0.35±0.05

Peel force of top cover tape:

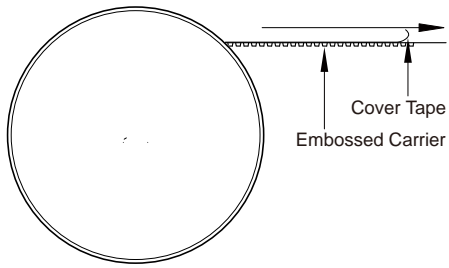


The peel force of top cover tape shall be between 0.1 to 1.3 N

Product Marking:

Marking	Printing (Inductance)
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Reel Dimension: [mm]



Packaging Quantity: