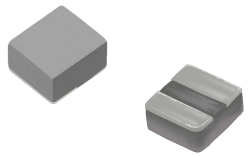
MDTA Series

SMD Low Profile High Current Molded Inductor
Size 20161A



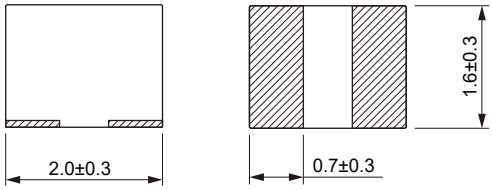
FEATURES

- High current, low DCR,high efficiency.
- Very low acoustic noise and very low leakage flux noise.
- AEC-Q200 qualified
- 100% Lead(Pb)-Free and RoHS compliant.
- Operating temperature: -55 to +155 °C (including self-temperature rise)
- Quantity: 3000PCS

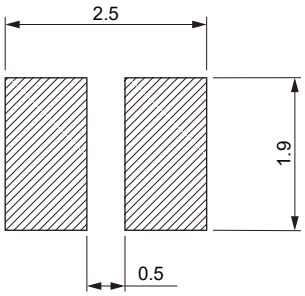
APPLICATION

- ADAS
- Headlamps, tail lamps and interior lighting
- HVAC
- Doors, window lift and seat control
- Audio subsystem
- Digital instrument cluster
- In-Vehicle Infotainment and navigation

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

Part No	Inductance @ 100KHz/1V (µH)	Tolerance	Temperature Rise Current Typ. (A)	Temperature Rise Current Max. (A)	Saturation Current Typ. (A)	Saturation Current Max. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
MDTA20161A-R10M	0.10	±20%	8.5	8.0	9.0	8.4	8	14
MDTA20161A-R15M	0.15	±20%	7.6	7.0	8.7	8.0	10	16
MDTA20161A-R24M	0.24	±20%	6.8	6.2	7.3	7.0	15	18
MDTA20161A-R33M	0.33	±20%	6.5	6.0	7.0	6.5	17	20
MDTA20161A-R47M	0.47	±20%	6.0	5.5	6.3	5.5	19	22
MDTA20161A-R68M	0.68	±20%	5.0	4.5	5.2	4.7	24	31
MDTA20161A-1R0M	1.00	±20%	4.0	3.7	4.8	4.2	38	46
MDTA20161A-1R5M	1.50	±20%	3.4	3.0	3.5	3.1	80	96
MDTA20161A-2R2M	2.20	±20%	2.8	2.5	3.0	2.8	120	138
MDTA20161A-3R3M	3.30	±20%	1.7	1.5	2.3	2.0	140	170
MDTA20161A-4R7M	4.70	±20%	1.6	1.4	2.0	1.8	190	220

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

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Typical Electrical Characteristics: