

MDA Series

SMD Low Profile High Current Molded Inductor

Size 1360



FEATURES

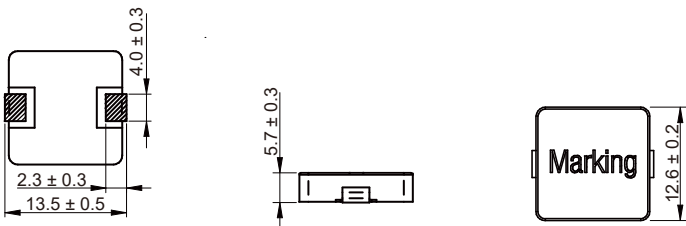
- Frequency range up to 5.0 MHz
- High current capability and handles high transient current spikes
- High performance (I_{SAT}) realized by metal dust core.
- Very low acoustic noise and very low leakage flux noise.
- AEC-Q200 qualified
- Operating temperature: -55°C to $+155^{\circ}\text{C}$ (including self-temperature rise)

Quantity: 500pcs

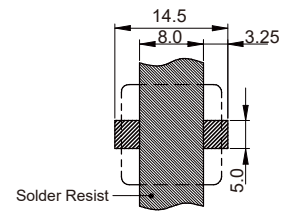
APPLICATION

- 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

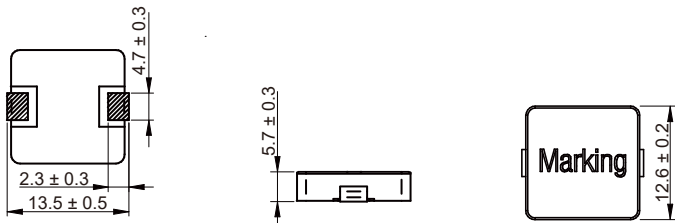
Dimensions: [mm] 1.5 μH



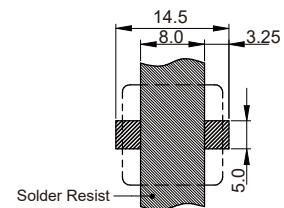
Land Pattern: [mm]



Dimensions: [mm] > 1.5 μH



Land Pattern: [mm]



Electrical Properties:

Part No	$L@100\text{KHz} / 1.0\text{V}$ (μH)	Tolerance	I_R Typ. (A)	I_R Max. (A)	I_{SAT} Typ. (A)	I_{SAT} Max. (A)	R_{DC} Typ. (m Ω)	R_{DC} Max. (m Ω)
MDA1360-1R5M	1.50	$\pm 20\%$	28	24	32	27	2.4	3.0
MDA1360-8R2M	8.20	$\pm 20\%$	13.5	12	17	15.5	13.5	16
MDA1360-100M	10.0	$\pm 20\%$	12	10.5	16	14.5	15.5	18.6

Part No	L@100KHz /1.0V (μ H)	Tolerance	I _R Typ. (A)	I _R Max. (A)	I _{SAT} Typ. (A)	I _{SAT} Max. (A)	R _{DC} Typ. (m Ω)	R _{DC} Max. (m Ω)
MDA1360-150M	15.0	± 20%	10	8.5	10	9	24	29
MDA1360-220M	22.0	± 20%	8	7	9	8	31.2	37.5
MDA1360-330M	33.0	± 20%	6.5	5.5	7.8	6.7	56	68
MDA1360-470M	47.0	± 20%	5.2	4.5	6.7	5.5	76	88
MDA1360-680M	68.0	± 20%	4.5	3.7	5.8	5	103	124

I_R will cause the coil temperature rise approximately $\Delta t 40^{\circ}\text{C}$

I_{SAT} will cause L to drop approximately 30% .

Typical Electrical Characteristics:

