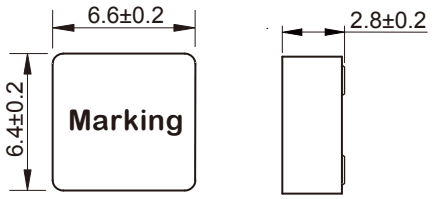
MDHA Series
Flat Wire Molded Inductor
Size 7030

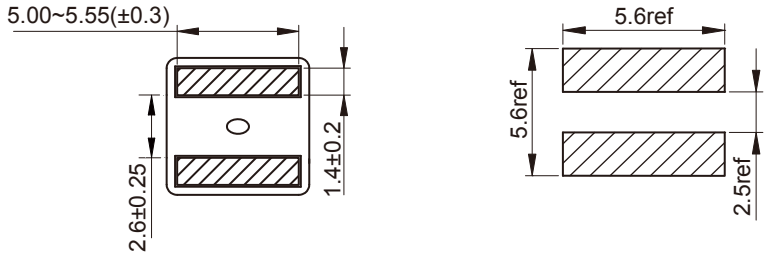
FEATURES
- Flat wire coil for low copper losses
- Composite core material allows high saturation currents
- Very low acoustic noise and very low leakage flux noise. High current capability and handles high transient current spikes
- AEC-Q200 qualified
- Operating temperature: -55°to +150°(including self-temperature rise)
- Quantity: 1000pcs

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

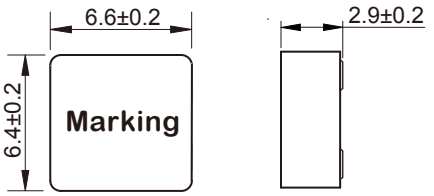
Dimensions: [mm] ≤1.20μH



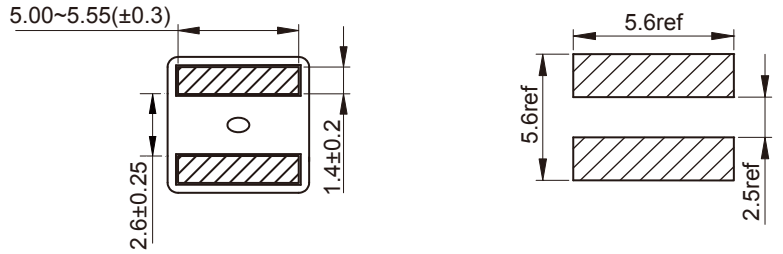
Land Pattern: [mm]



Dimensions: [mm] ＞1.20μH



Land Pattern: [mm]



Electrical Properties:

Part No	L@100KHz /0.1V (μH)	Tolerance	I_{SAT} Typ. (A)	I_{SAT} Max. (A)	I_R Typ. (A)	R_{DC} Typ. (mΩ)	R_{DC} Max. (mΩ)
MDHA7030-R18M	0.18	±20%	40.0	36.0	32.0	1.60	1.75
MDHA7030-R33M	0.33	±20%	32.0	28.0	25.0	2.25	2.50
MDHA7030-R56M	0.56	±20%	29.0	25.0	22.0	3.00	3.31
MDHA7030-1R0M	1.00	±20%	23.0	18.0	18.0	5.50	6.05
MDHA7030-1R2M	1.20	±20%	22.0	16.0	16.0	6.70	7.40

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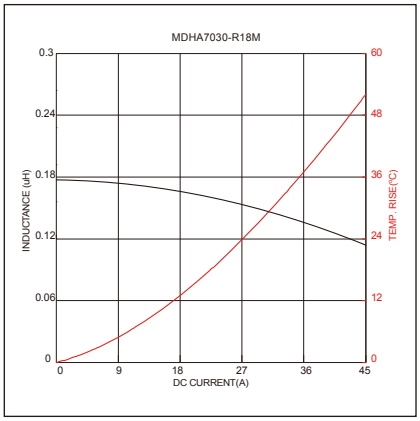
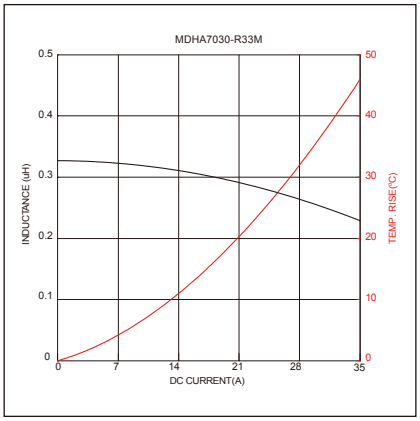
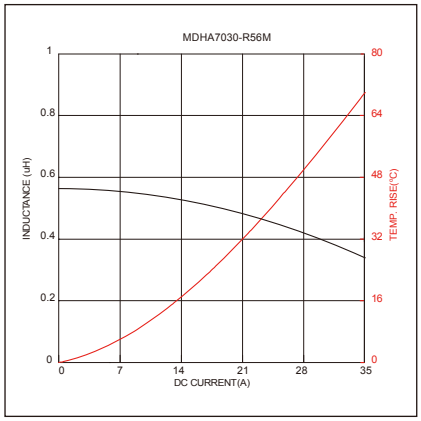
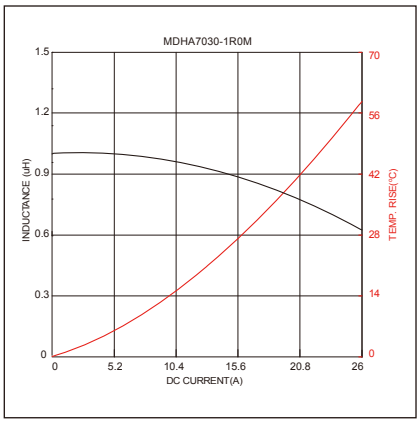
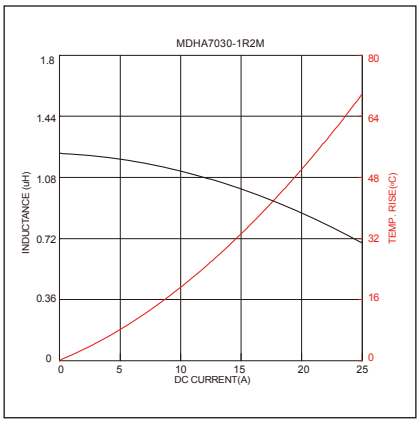
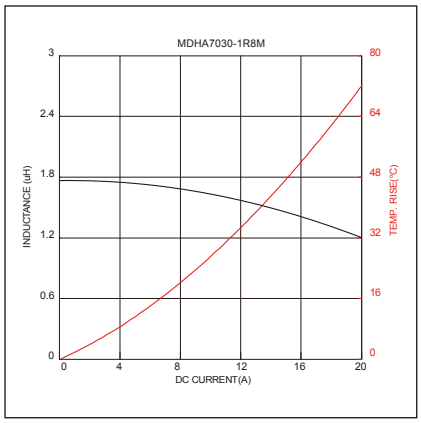
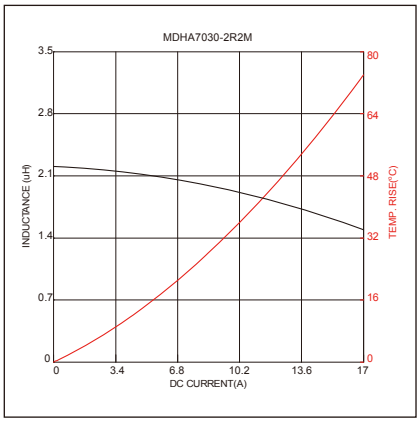
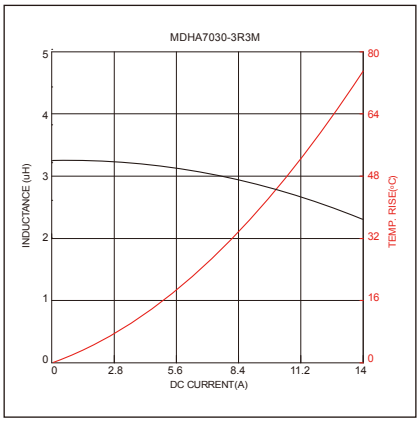
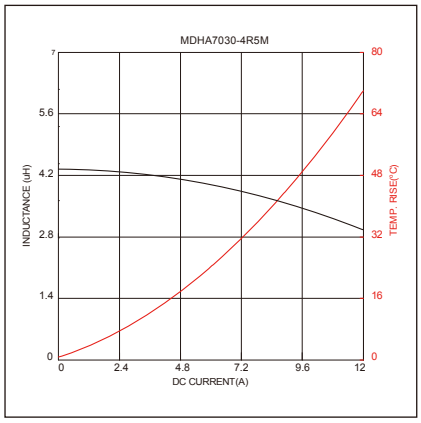
Part No	L@100KHz /0.1V (μH)	Tolerance	I_{SAT} Typ. (A)	I_{SAT} Max. (A)	I_R Typ. (A)	R_{DC} Typ. (mΩ)	R_{DC} Max. (mΩ)
MDHA7030-1R8M	1.80	±20%	18.2	13.0	14.0	9.20	10.2
MDHA7030-2R2M	2.20	±20%	15.9	11.0	10.0	11.0	12.2
MDHA7030-3R3M	3.30	±20%	12.2	9.0	8.00	18.8	20.8
MDHA7030-4R5M	4.50	±20%	10.0	8.0	7.00	23.0	25.3

I_R will cause the coil temperature rise approximately Δt40℃

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

Typical Electrical Characteristics: