MDA Series

SMD Low Profile High Current Molded Inductor

Size 2313

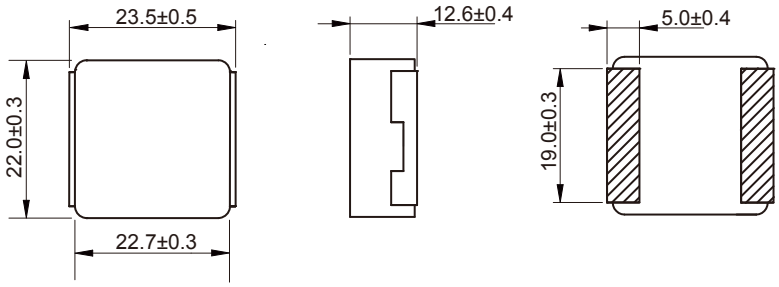
FEATURES

- Frequency range up to 5.0 MHz
- High current capability and handles high transient current spikes
- High performance (Isat) realized by metal dust core.
- Very low acoustic noise and very low leakage flux noise.
- AEC-Q200 qualified
- Operating temperature: -55°to +155°(including self-temperature rise)
- Quantity: 120pcs

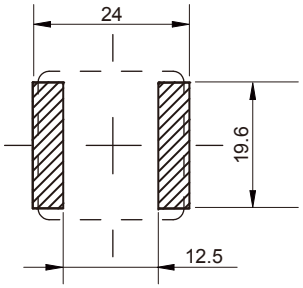
APPLICATION

- 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 /1.0V (μH)	Tolerance	I_R Typ. (A)	I_R Max. (A)	I_{SAT} Typ. (A)	I_{SAT} Max. (A)	R_{DC} Typ. (mΩ)	R_{DC} Max. (mΩ)
MDA2313-1R5M	1.5	±20%	62	57	52	48	1.0	1.15
MDA2313-2R0M	2	±20%	60	54	50	45	1.02	1.2
MDA2313-2R2M	2.2	±20%	58	52	48	43	1.05	1.25
MDA2313-3R0M	3	±20%	51	48	44	39	1.42	1.64
MDA2313-3R3M	3.3	±20%	49	47	41	37	1.5	1.75
MDA2313-4R7M	4.7	±20%	47	44	38	34	1.9	2.2
MDA2313-6R8M	6.8	±20%	40	36	36	32	2.7	3.1
MDA2313-100M	10	±20%	33	30	28	20	3.8	4.15
MDA2313-220M	22	±20%	22	18	15	14	9.2	11
MDA2313-230M	23	±20%	22	18	15	14	9.2	11
MDA2313-330M	33	±20%	19	16	12	10.5	13.5	15.4
MDA2313-470M	47	±20%	17	14	12	10	17.3	20.8
MDA2313-680M	68	±20%	14	12	12	9	26.2	29.5

I_R will cause the coil temperature rise approximately Δt40℃

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

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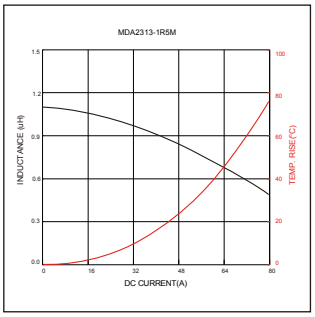
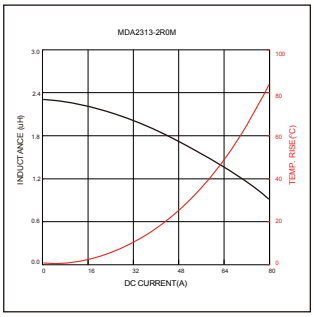
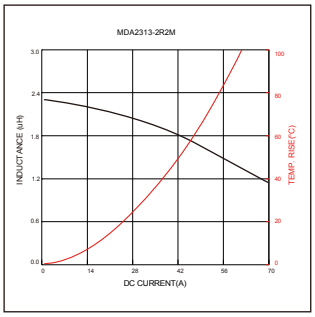
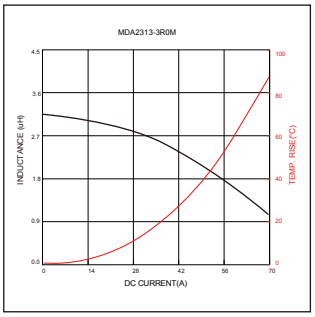
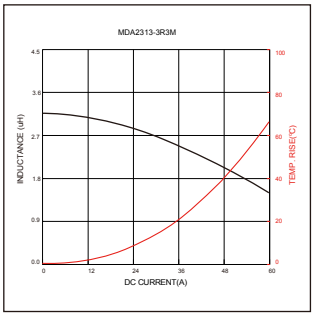
Typical Electrical Characteristics:

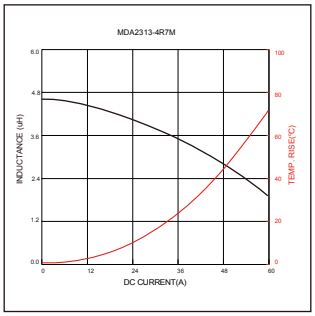


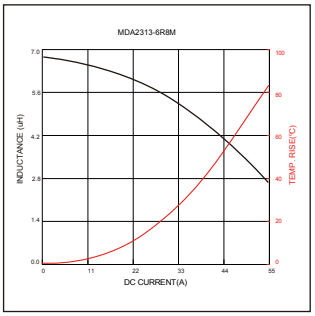


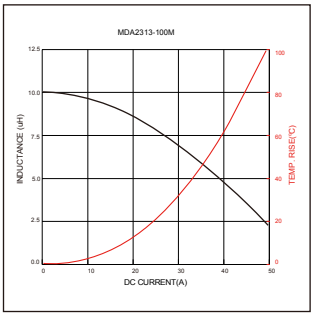


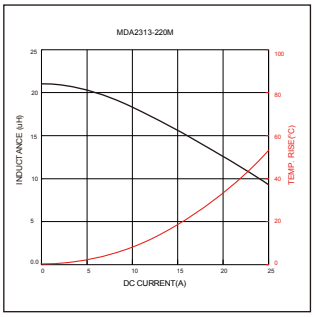


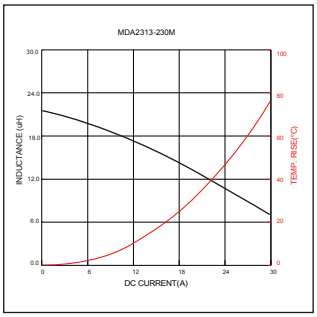


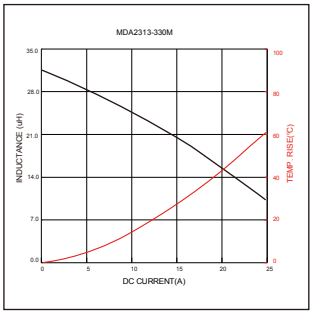


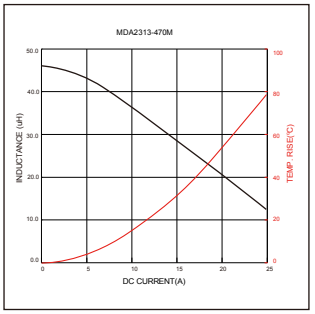


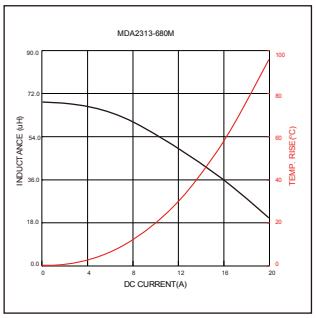












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