MD Series

SMD Low Profile High Current Molded Inductor

Size 1360

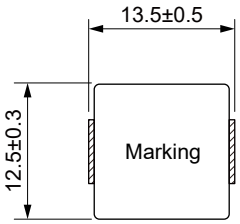
CHARACTERISTICS

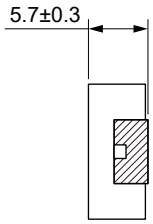
- Molded type
- High saturation current due to CIP material
- Nature air gap and no acoustic noise
- Different sizes available
- Quantity: 500pcs

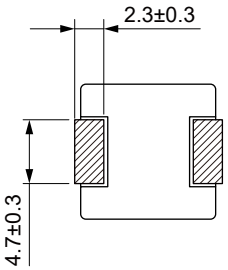
APPLICATION

- High current DC/DC converter
- LC flter

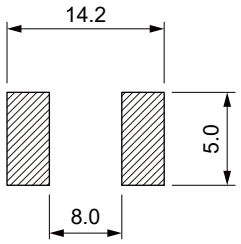
Dimensions: [mm]







Land Pattern: [mm]



Electrical Properties:

Part No	Inductance @ 100KHz/1V (µH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
MD1360-R22N	0.22	±30%	55	120	0.48	0.65
MD1360-R36M	0.36	±20%	42	80	0.72	0.90
MD1360-R47M	0.47	±20%	38	64	0.92	1.30
MD1360-R56M	0.56	±20%	35	60	1.15	1.50
MD1360-R68M	0.68	±20%	33	57	1.33	1.70
MD1360-R82M	0.82	±20%	31	55	1.50	1.90
MD1360-1R0M	1.00	±20%	29	53	1.80	2.40
MD1360-1R5M	1.50	±20%	26	50	2.70	3.20
MD1360-2R2M	2.20	±20%	21	43	4.00	4.70
MD1360-3R3M	3.30	±20%	17	35	5.80	7.10
MD1360-4R7M	4.70	±20%	16	30	9.50	11.5
MD1360-5R6M	5.60	±20%	15.5	28	10.8	12.6
MD1360-6R8M	6.80	±20%	15	25	12.0	13.8
MD1360-8R2M	8.20	±20%	11	23	13.6	16.0
MD1360-100M	10.0	±20%	11	21	18.0	20.7
MD1360-150M	15.0	±20%	9.0	16	25.0	29.0
MD1360-180M	18.0	±20%	8.5	15	30.0	35.0

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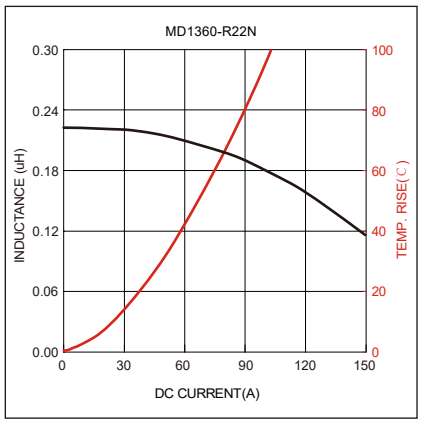
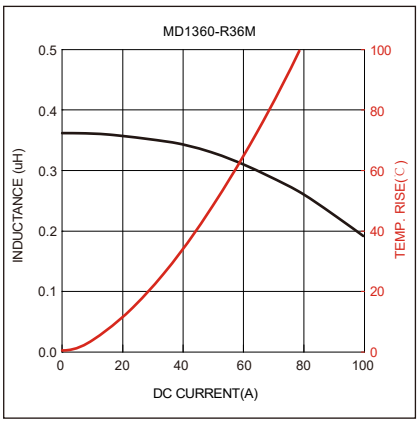
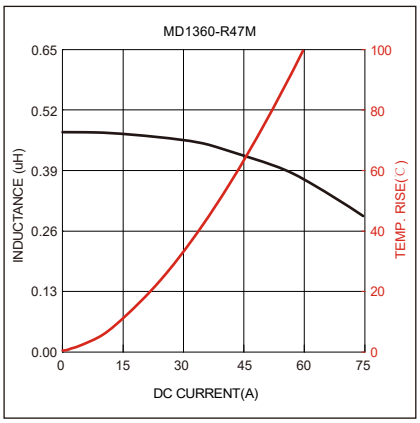
Part No	Inductance @ 100KHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Saturation current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)
MD1360-220M	22.0	±20%	8.0	14	34	39.5
MD1360-330M	33.0	±20%	6.0	12	65	75.0
MD1360-470M	47.0	±20%	5.5	11	80	90.0
MD1360-680M	68.0	±20%	5.0	9	120	140

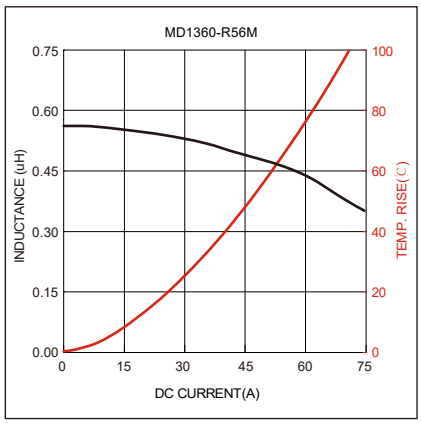
Operating temperature : -40℃ ~ +125℃
Temperature rise current : The actual value of DC current when the temperature rise is ΔT40℃
Saturation Current will cause L to drop approximately 30%

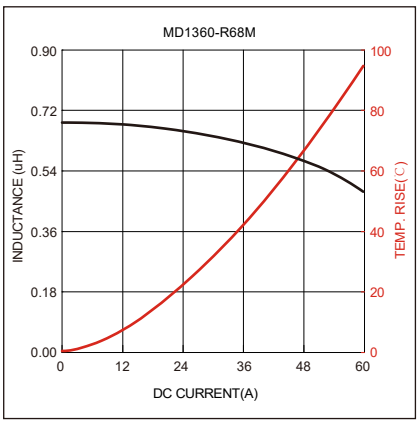
Typical Electrical Characteristics:

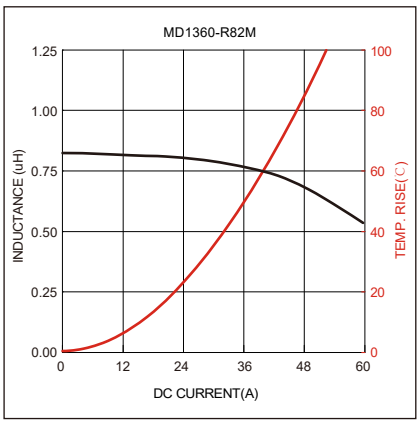


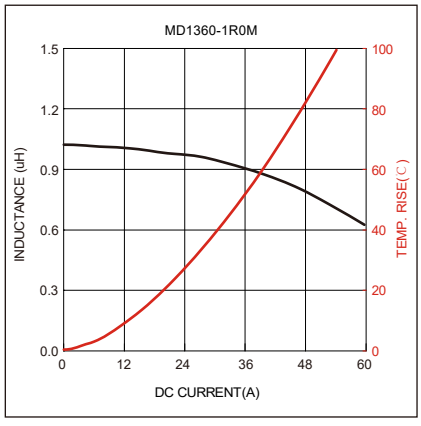


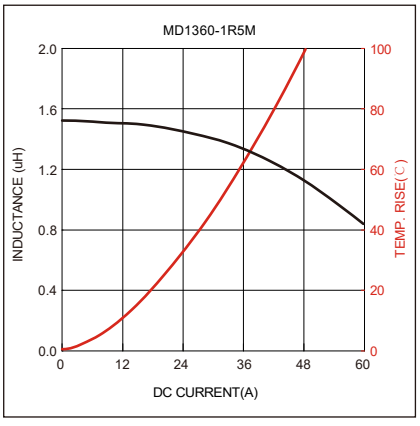


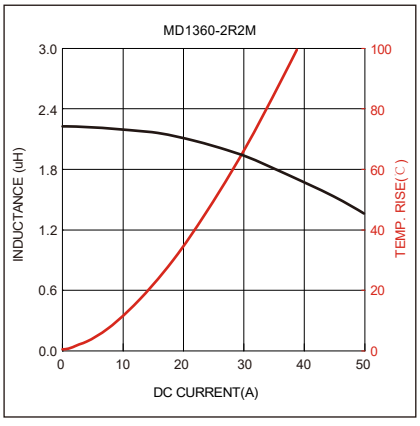












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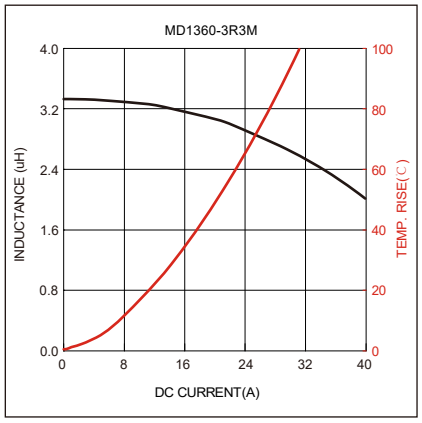

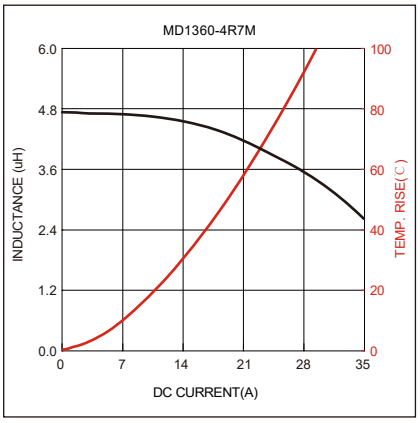

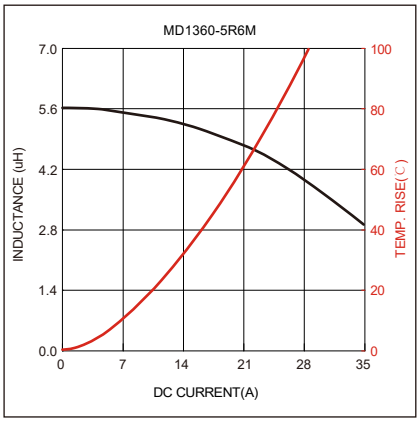

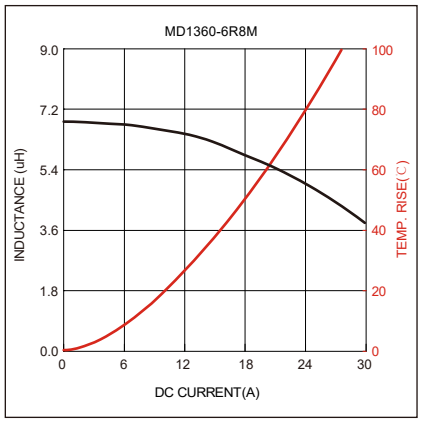

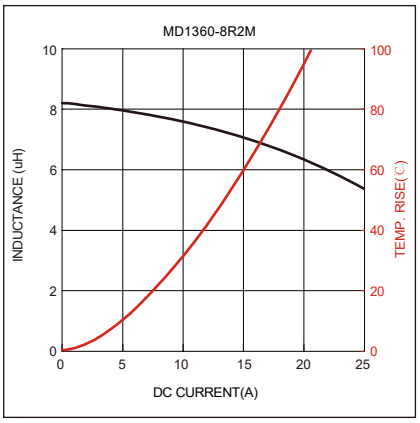

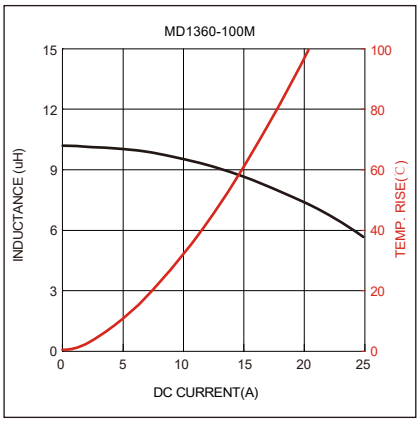

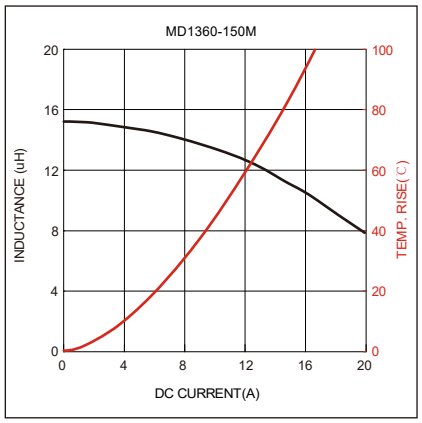

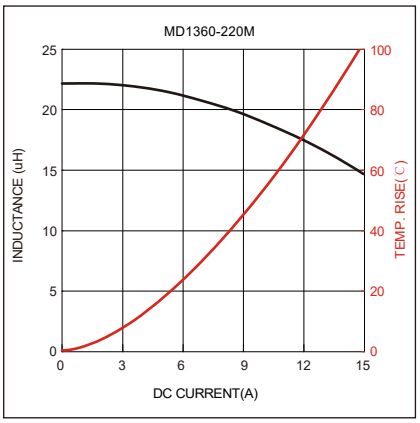

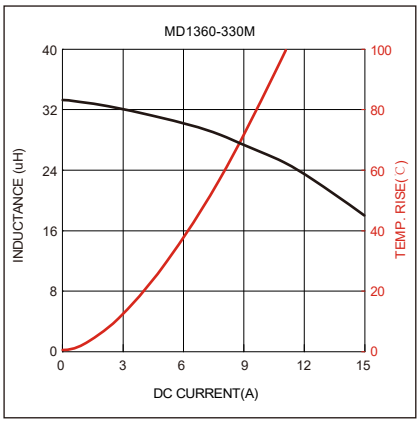

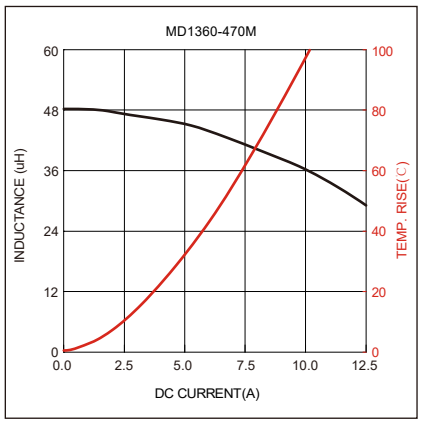

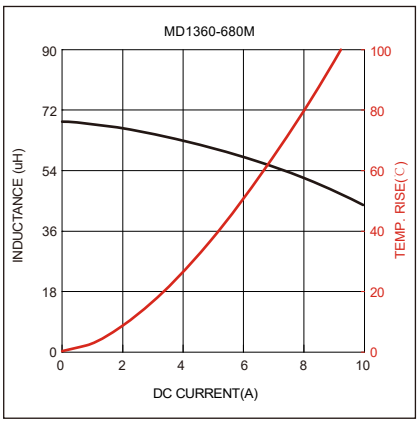

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