NRSA Series

SMD Power Inductors For Automotive

Size 5020

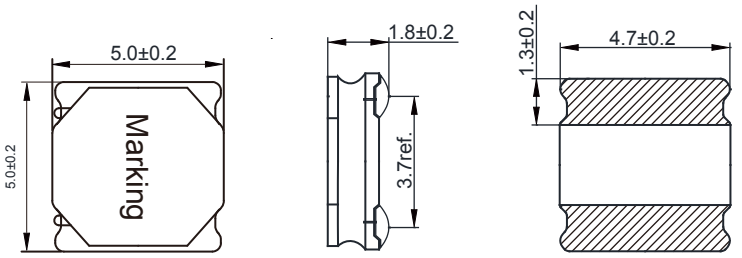
FEATURES

- Magnetic shield type wound inductor for power circuits using a ferrite magnetic material
- High magnetic shield construction and compatible with high-density mounting.
- Larger current and lower Rdc were achieved by optimizing the ferrite core figure.
- Operating temperature: –55 to +125°C(including self-temperature rise)
- High reliability -Reliability test meet AEC-Q200
- Quantity: 800pcs

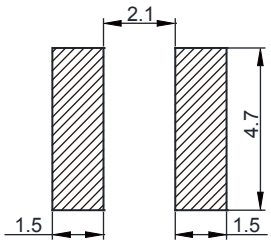
APPLICATION

- Car navigation, car stereo and car accessories only

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

Part No	L@100KHz/1V (μH)	Tolerance	I_{SAT} Typ. (A)	I_R Typ. (A)	R_{DC} ±20% (mΩ)
NRSA5020-1R0N	1.0	±30%	5.00	4.10	20
NRSA5020-1R2N	1.2	±30%	4.80	3.80	20
NRSA5020-1R5N	1.5	±30%	4.50	3.50	25
NRSA5020-2R2M	2.2	±20%	4.10	3.30	32
NRSA5020-2R7M	2.7	±20%	3.80	3.00	38
NRSA5020-3R3M	3.3	±20%	3.50	2.80	43
NRSA5020-4R7M	4.7	±20%	2.70	2.40	60
NRSA5020-5R6M	5.6	±20%	2.40	2.10	69
NRSA5020-6R8M	6.8	±20%	2.10	1.90	90
NRSA5020-8R2M	8.2	±20%	1.90	1.75	98
NRSA5020-100M	10	±20%	1.70	1.60	110
NRSA5020-120M	12	±20%	1.40	1.40	135
NRSA5020-150M	15	±20%	1.30	1.25	165
NRSA5020-180M	18	±20%	1.20	1.17	190
NRSA5020-220M	22	±20%	1.10	1.10	225
NRSA5020-330M	33	±20%	0.80	0.80	335
NRSA5020-470M	47	±20%	0.70	0.70	460

I_R will cause the coil temperature rise approximately Δt40℃

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

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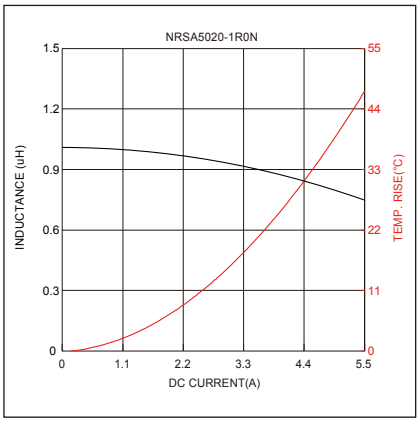
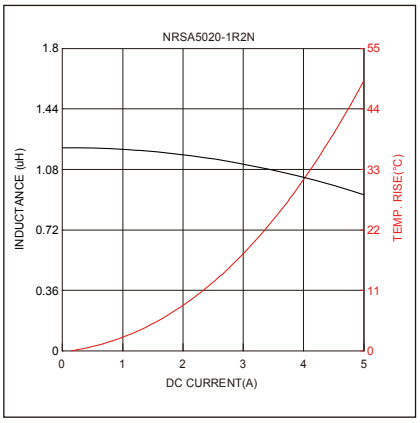
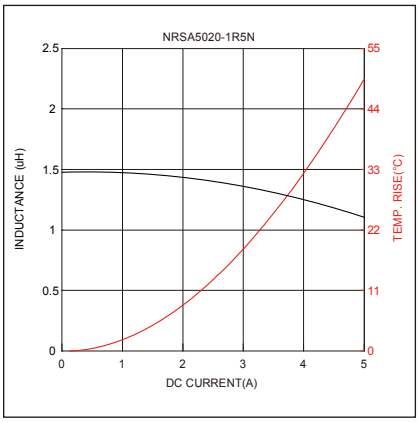
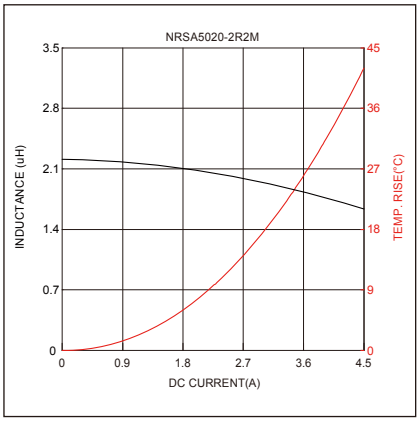
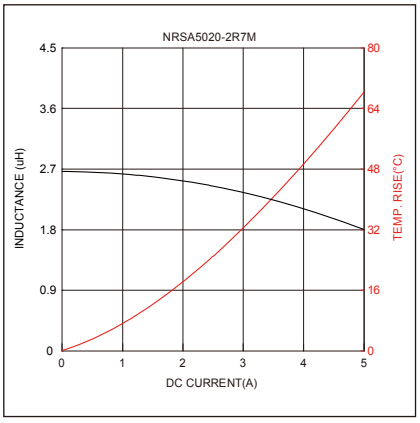
Typical Electrical Characteristics:

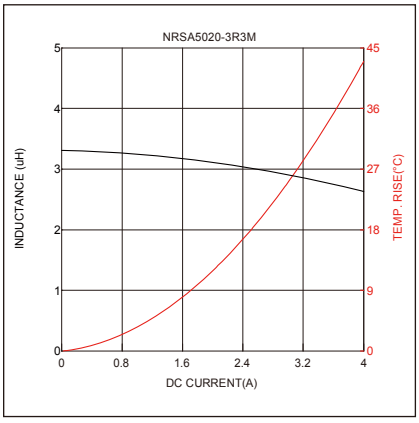


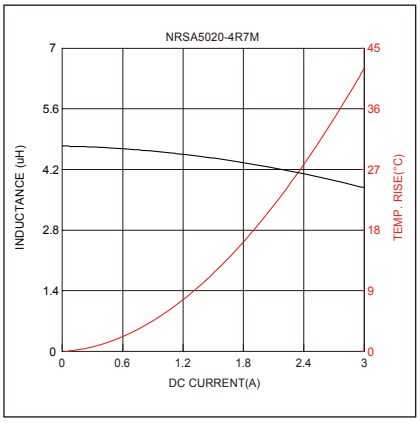


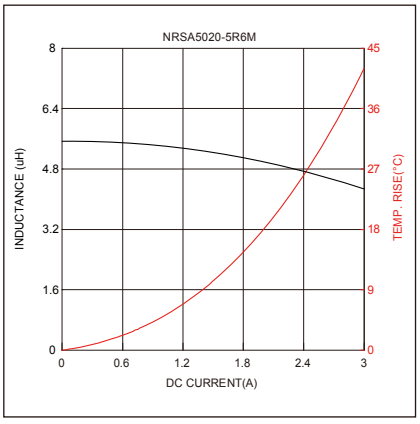


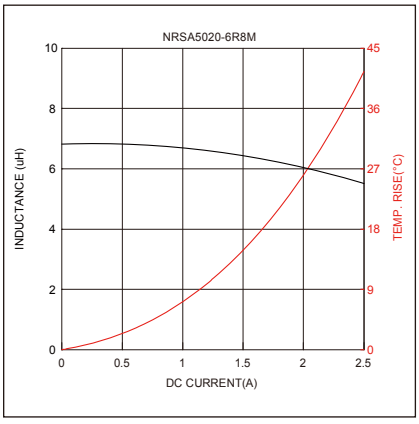


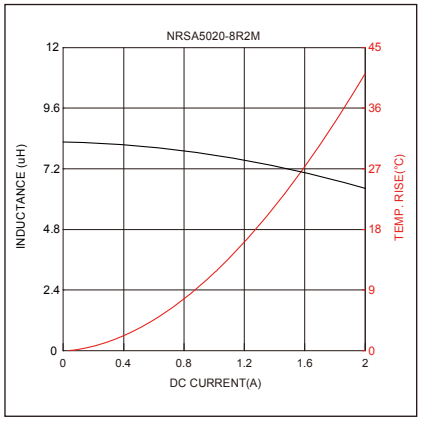


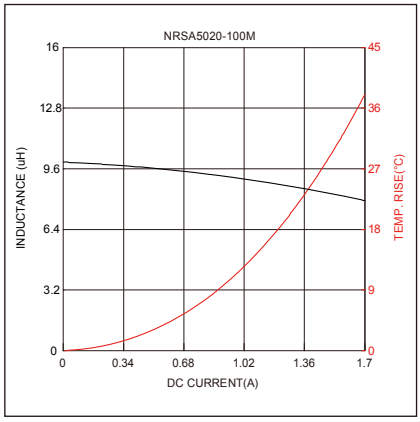


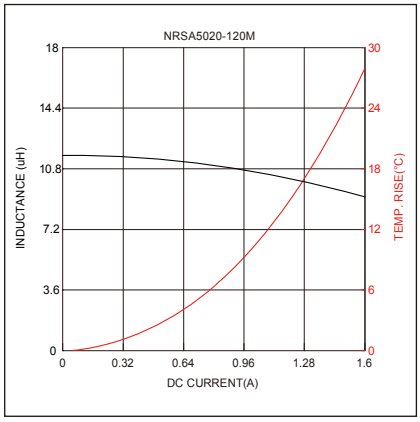












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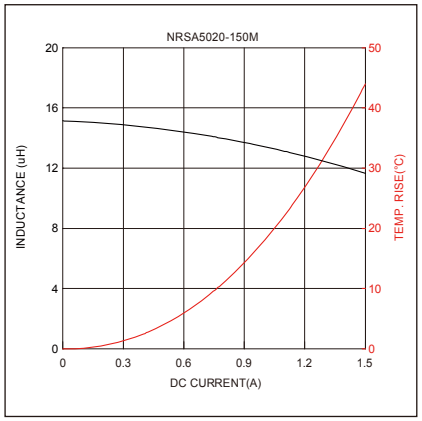

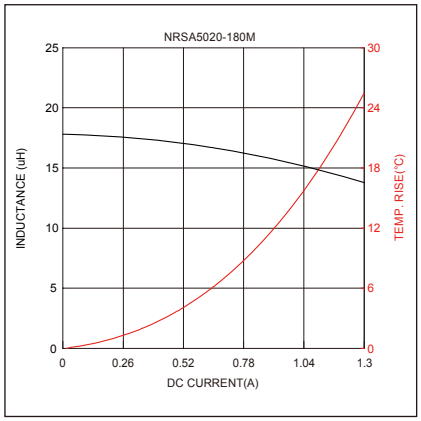

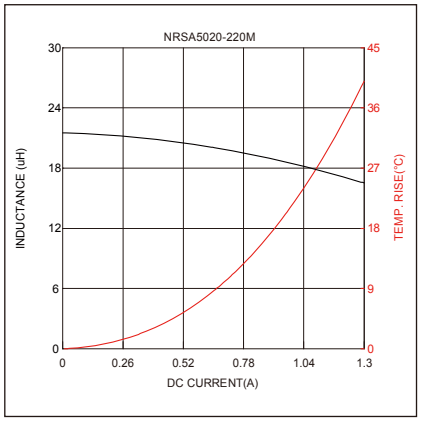

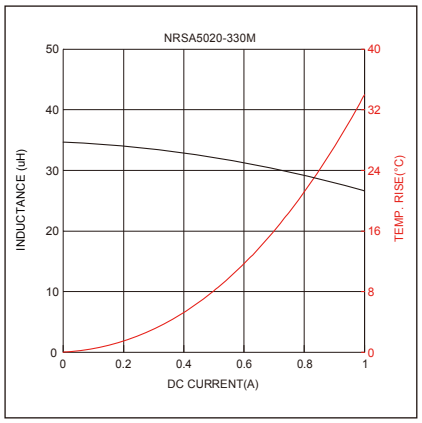

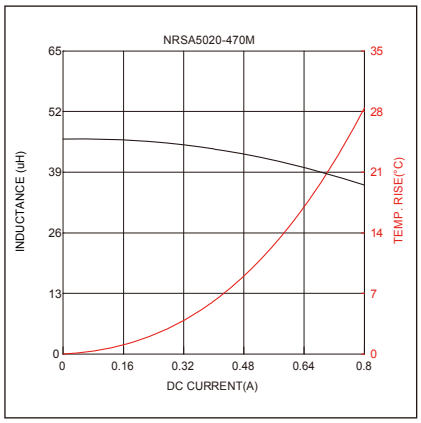

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