NRFA Series

Metal Core SMD Power Inductors For Automotive
Size 252010

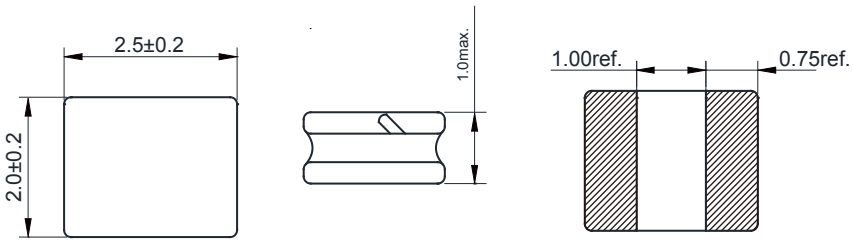
FEATURES

- Metal Core SMD Power Inductors for Automotive power circuits
- 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 range: –55 to +125°C(including self-temperature rise)
- High reliability -Reliability test meet AEC-Q200
- Quantity: 2000pcs

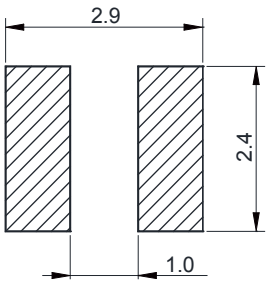
APPLICATION

- Car navigation, car stereo and car accessories only

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

Part No	L @1V/1MHz (µH)	Tolerance	I_{SAT} Typ. (A)	I_{SAT} Max. (A)	I_R Typ. (A)	I_R Max. (A)	R_{DC} Max. (Ω)
NRFA252010-R24M	0.24	±20%	7.0	6.0	4.5	4.0	0.028
NRFA252010-R33M	0.33	±20%	5.5	4.8	4.3	3.8	0.029
NRFA252010-R47M	0.47	±20%	5.2	4.50	4.00	3.50	0.036
NRFA252010-R68M	0.68	±20%	4.00	3.50	3.50	3.00	0.045
NRFA252010-1R0M	1.0	±20%	3.50	3.10	3.00	2.50	0.063
NRFA252010-1R5M	1.5	±20%	3.00	2.60	2.50	2.00	0.096
NRFA252010-2R2M	2.2	±20%	2.20	1.90	2.10	1.80	0.126
NRFA252010-3R3M	3.3	±20%	1.90	1.60	1.40	1.20	0.235
NRFA252010-4R7M	4.7	±20%	1.60	1.30	1.30	1.10	0.276

I_R will cause the coil temperature rise approximately Δt40℃

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

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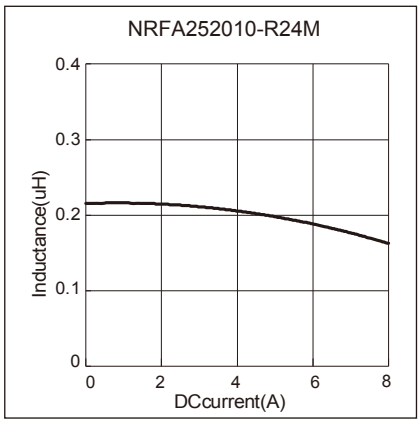
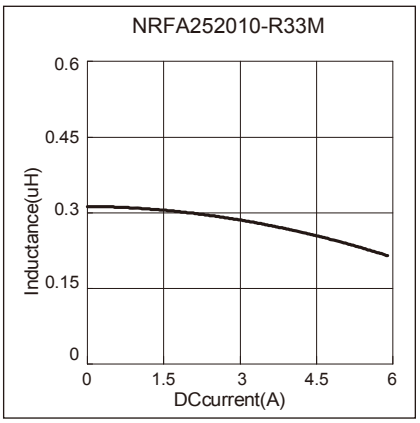
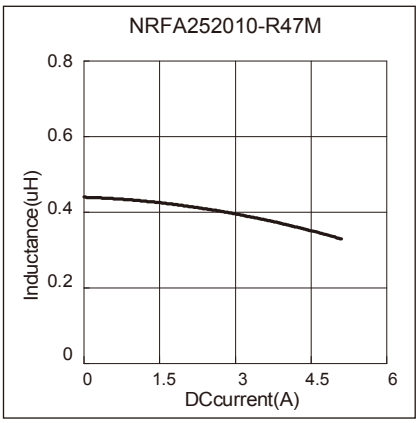
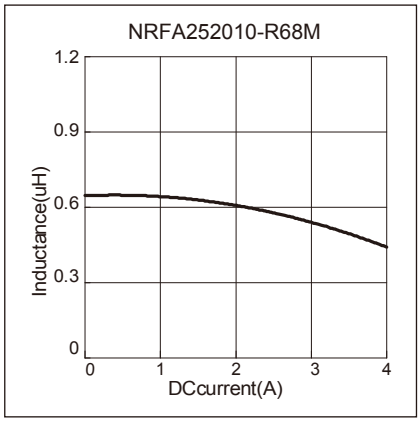
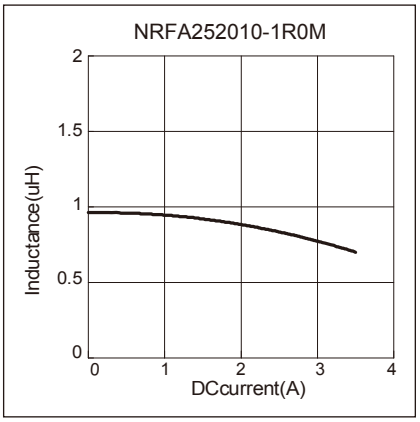
Typical Electrical Characteristics:

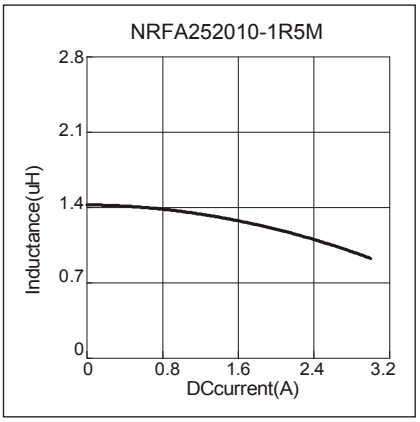


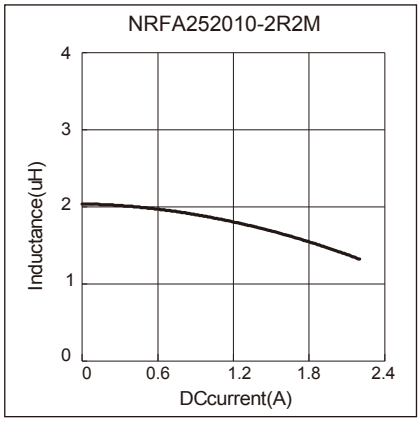


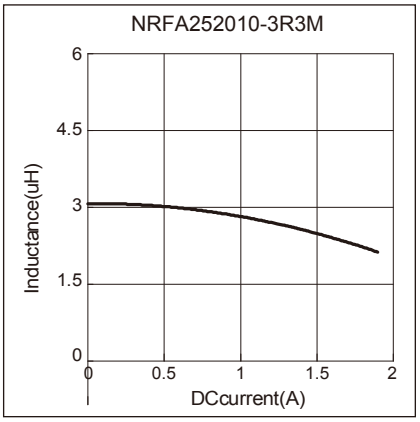


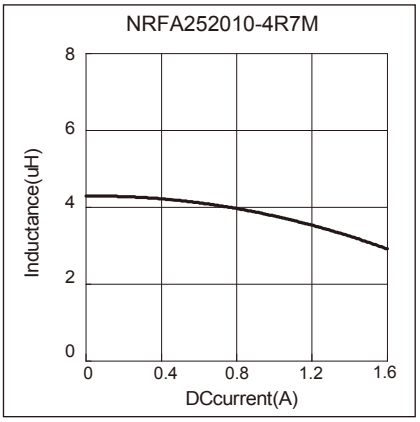












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