

NRFA Series

Metal Core SMD Power Inductors For Automotive Size 252012



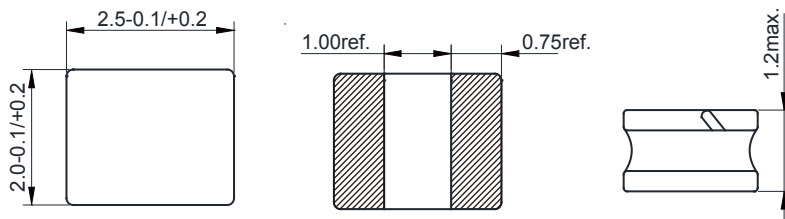
FEATURES

- 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

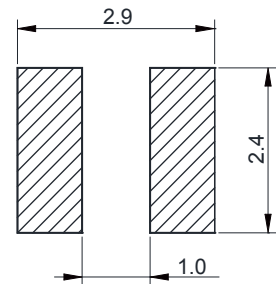
APPLICATION

- Car navigation, car stereo and car accessories only

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

Part No	L @1V/1MHz (μ H)	Tolerance	I _{SAT} Typ. (A)	I _{SAT} Max. (A)	I _R Typ. (A)	I _R Max. (A)	R _{DC} Max. (Ω)
NRFA252012-R24M	0.24	±20%	7.8	6.5	7.50	6.50	0.015
NRFA252012-R33M	0.33	±20%	7.00	6	6.30	5.20	0.023
NRFA252012-R47M	0.47	±20%	6.50	5.5	5.50	4.70	0.027
NRFA252012-R68M	0.68	±20%	6.00	5.0	5.00	4.20	0.037
NRFA252012-1R0M	1.0	±20%	4.5	3.8	4.50	4.00	0.044
NRFA252012-1R5M	1.5	±20%	3.8	3.2	4.00	3.50	0.060
NRFA252012-2R2M	2.2	±20%	2.6	2.2	3.00	2.50	0.084
NRFA252012-3R3M	3.3	±20%	2.3	2.0	2.20	2.00	0.140
NRFA252012-4R7M	4.7	±20%	1.7	1.5	1.90	1.70	0.150

I_R will cause the coil temperature rise approximately $\Delta t 40^{\circ}\text{C}$

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

Typical Electrical Characteristics:

