

NRFA Series

Metal Core SMD Power Inductors For Automotive Size 3012



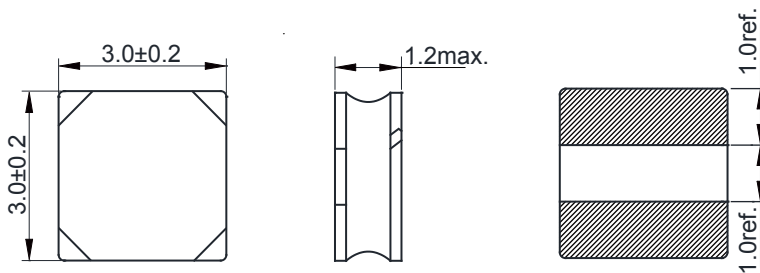
FEATURES

- 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

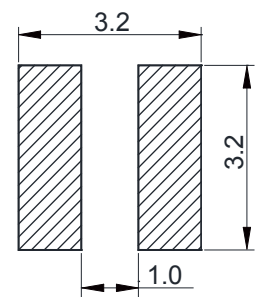
APPLICATION

- 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)
NRFA3012-R33M	0.33	±20%	9.00	7.00	5.50	4.50	0.024
NRFA3012-R47M	0.47	±20%	7.50	6.50	5.20	4.20	0.030
NRFA3012-R68M	0.68	±20%	6.50	5.50	4.50	3.70	0.038
NRFA3012-1R0M	1.0	±20%	5.20	4.50	4.00	3.50	0.049
NRFA3012-1R5M	1.5	±20%	4.50	4.00	3.50	3.00	0.072
NRFA3012-2R2M	2.2	±20%	3.60	3.00	2.80	2.30	0.108
NRFA3012-3R3M	3.3	±20%	3.00	2.50	2.10	1.70	0.156
NRFA3012-4R7M	4.7	±20%	2.60	2.30	1.80	1.50	0.216
NRFA3012-6R8M	6.8	±20%	2.20	1.90	1.50	1.30	0.300
NRFA3012-100M	10	±20%	1.50	1.30	1.40	1.20	0.350

I_R will cause the coil temperature rise approximately Δt40°C

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

Typical Electrical Characteristics:

