

NRSA Series

SMD Power Inductors For Automotive

Size 3010



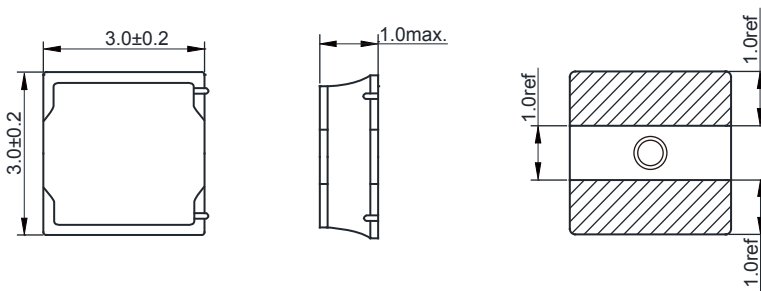
FEATURES

- 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: 2000pcs

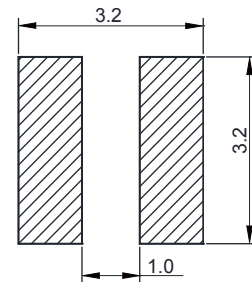
APPLICATION

- Car navigation, car stereo and car accessories only

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

Part No	L @0.1V/1MHz (μH)	Tolerance	I _{SAT} Typ. (A)	I _{SAT} Max. (A)	I _R Typ. (A)	I _R Max. (A)	R _{DC} ±20% (mΩ)
NRSA3010-1R0N	1.0	±30%	2.20	1.80	2.50	2.10	55
NRSA3010-1R5N	1.5	±30%	2.00	1.50	2.20	1.90	70
NRSA3010-2R2M	2.2	±20%	1.60	1.30	2.10	1.70	90
NRSA3010-3R3M	3.3	±20%	1.30	1.10	1.70	1.50	130
NRSA3010-4R7M	4.7	±20%	1.20	0.90	1.50	1.30	170
NRSA3010-6R8M	6.8	±20%	0.90	0.77	1.30	1.00	260
NRSA3010-100M	10	±20%	0.75	0.63	1.00	0.80	350
NRSA3010-150M	15	±20%	0.65	0.54	0.80	0.70	510
NRSA3010-220M	22	±20%	0.55	0.43	0.75	0.60	750

I_R will cause the coil temperature rise approximately Δt40 °C

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

Typical Electrical Characteristics:

