

NRSA Series

SMD Power Inductors For Automotive Size 4012



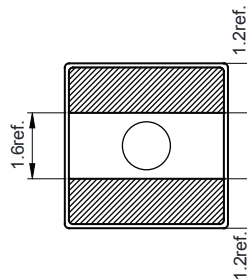
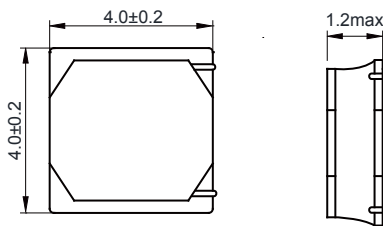
FEATURES

- 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: 4500pcs

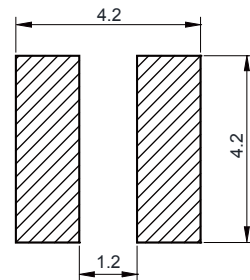
APPLICATION

- Car navigation, car stereo and car accessories only

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

Part No	L @1V/100KHz (μH)	Tolerance	I _{SAT} Typ. (A)	I _R Typ. (A)	R _{DC} ±20% (mΩ)
NRSA4012-1R0N	1.0	±30%	2.80	2.20	42
NRSA4012-2R2M	2.2	±20%	1.65	1.90	60
NRSA4012-3R3M	3.3	±20%	1.40	1.70	70
NRSA4012-4R7M	4.7	±20%	1.20	1.50	95
NRSA4012-6R8M	6.8	±20%	0.90	1.30	125
NRSA4012-100M	10	±20%	0.80	1.10	180
NRSA4012-150M	15	±20%	0.65	0.75	260
NRSA4012-220M	22	±20%	0.50	0.62	400

I_R will cause the coil temperature rise approximately Δt40 °C

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

Typical Electrical Characteristics:

