

NRSA Series

SMD Power Inductors For Automotive

Size 8040



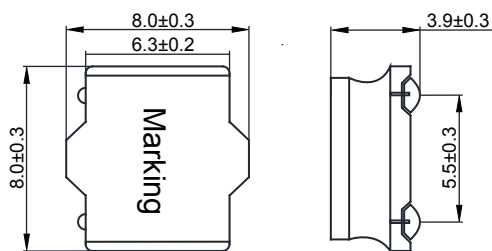
FEATURES

- 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: 1000pcs

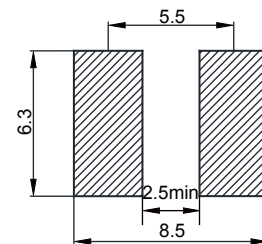
APPLICATION

- Car navigation, car stereo and car accessories only

Dimensions: [mm] ≤10uH



Land Pattern: [mm]

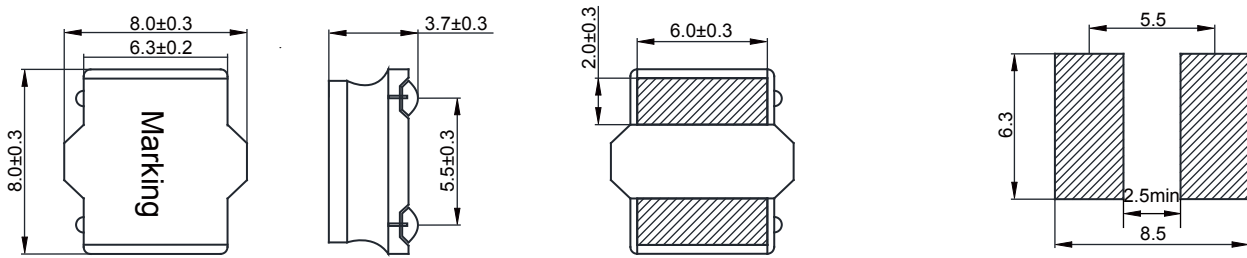


Electrical Properties:

Part No	L@1MHz/1V (μH)	Tolerance	I _{SAT} Typ. (A)	I _{SAT} Max. (A)	I _R Typ. (A)	I _R Max. (A)	R _{DC} ±20% (mΩ)
NRSA8040-1R0M	1.0	±20%	13.80	13.00	8.50	8.00	8.2
NRSA8040-1R2M	1.2	±20%	12.80	11.50	8.30	7.80	8.2
NRSA8040-1R4M	1.4	±20%	11.80	11.20	8.20	7.80	10.0
NRSA8040-1R5M	1.5	±20%	11.50	11.00	8.00	7.70	10.0
NRSA8040-1R6M	1.6	±20%	11.50	11.00	8.00	7.70	10.0
NRSA8040-2R0M	2.0	±20%	10.20	9.60	7.50	7.10	11.0
NRSA8040-2R2M	2.2	±20%	9.80	9.20	7.40	6.90	11.5
NRSA8040-2R7M	2.7	±20%	9.00	8.20	7.00	6.50	13.0
NRSA8040-3R3M	3.3	±20%	8.00	7.50	6.60	6.20	15.0
NRSA8040-4R7M	4.7	±20%	6.70	6.00	5.80	5.30	19.5
NRSA8040-5R6M	5.6	±20%	6.20	5.80	5.40	5.20	22.0
NRSA8040-6R8M	6.8	±20%	5.60	5.10	5.10	5.00	25.0
NRSA8040-8R2M	8.2	±20%	5.30	4.60	4.80	4.50	30.0
NRSA8040-100M	10	±20%	5.00	4.30	4.60	4.20	33.0

Dimensions: [mm] > 10uH

Land Pattern: [mm]



Electrical Properties:

Part No	L@1MHz/1V (μH)	Tolerance	I _{SAT} Typ. (A)	I _{SAT} Max. (A)	I _R Typ. (A)	I _R Max. (A)	R _{DC} ±20% (mΩ)
NRSA8040-150M	15	±20%	4.00	3.60	3.60	3.20	50.0
NRSA8040-220M	22	±20%	3.10	2.80	2.90	2.45	73.0
NRSA8040-330M	33	±20%	2.60	2.10	2.30	2.10	100
NRSA8040-470M	47	±20%	2.20	1.90	2.00	1.70	135
NRSA8040-560M	56	±20%	1.90	1.60	1.75	1.60	160
NRSA8040-680M	68	±20%	1.75	1.50	1.65	1.50	205
NRSA8040-820M	82	±20%	1.60	1.40	1.40	1.30	230
NRSA8040-101M	100	±20%	1.45	1.20	1.20	1.10	300

I_R will cause the coil temperature rise approximately Δt40 °C

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

Typical Electrical Characteristics:

