

NRSA Series

SMD Power Inductors For Automotive Size 8040



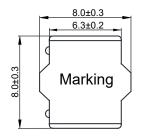
FEATURES

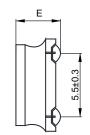
- Magnetic shield type wound inductor for power circuits using a ferrite magnetic material
- High magnetic shield construction and compatible with high-density mounting.
- Larger current and lower Rdc were achieved by optimizing the ferrite core figure.
- Operating temperature: -55 to +125°C(including self-temperature rise)
- AEC-Q200 qualified
- Quantity: 1000pcs

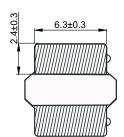
APPLICATION

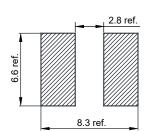
Car navigation, car stereo and car accessories only

Dimensions: [mm]









Land Pattern: [mm]

Electrical Properties:

Part No	L@100KHz/1V (μH)	Tolerance	I _{SAT} Typ. (A)	I _{SAT} Max. (A)	I _R Тур. (A)	I _R Max. (A)	R _{DC} ±20% (mΩ)	E
NRSA8040-100M	10	±20%	5.00	4.30	4.60	4.20	33.0	4.2 Max

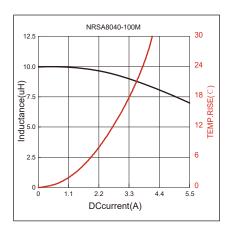
 I_R will cause the coil temperature rise approximately $\Delta t40\,{}^\circ\!\mathrm{C}$

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

				UNIT: MM	MOUSD I
				SHEET:1/5	KOHERelec
				APPROVAL:WS	KOHER (Shanghai) Electronics Co.,Ltd
A0	13-OCT-23	PDF	WL	SIZE: A4	DESCRIPTION:SMD Power Inductors For Automotive
REV	DATE	FILE	BY	PACKING UNIT: 1000pcs	PART NO:NRSA8040-100M



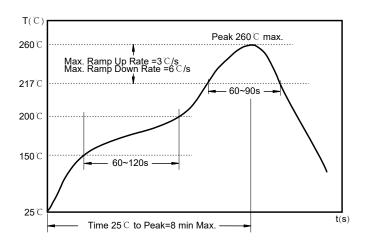
Typical Electrical Characteristics:



				UNIT: MM	MOUSD I
				SHEET:2/5	KOHERelec
				APPROVAL:WS	KOHER (Shanghai) Electronics Co.,Ltd
A0	13-OCT-23	PDF	WL	SIZE: A4	DESCRIPTION:SMD Power Inductors For Automotive
REV	DATE	FILE	BY	PACKING UNIT: 1000pcs	PART NO:NRSA8040-100M



Soldering Reflow:



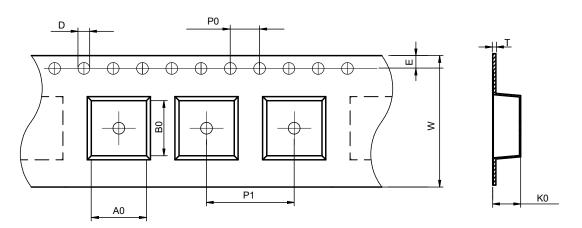
Preheat condition: 150 ~200 $^{\circ}$ / 60~120 sec.

Allowed time above 217 °C: 60~90 sec.

Max temperature: 260 ℃. Allowed Reflow time: 2x max.

Packaging Information:

Tape Dimension:

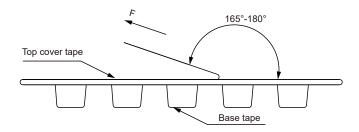


Series	A0	B0	D	P0	P1	W	K0	E	T
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
NRSA8040	8.55±0.1	8.55±0.1	1.5±0.1	4.0±0.1	12.0±0.1	16.0±0.3	4.4±0.1	1.75±0.1	0.40±0.05

				UNIT: MM	MOUGD I
				SHEET:3/5	KOHERelec
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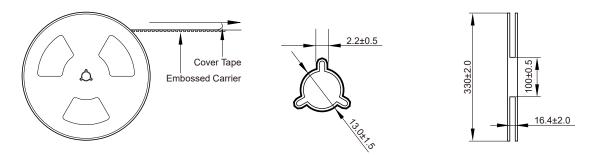
Peel force of top cover tape:



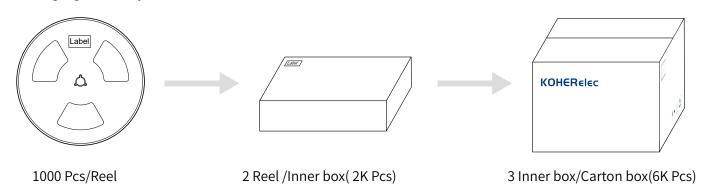
The peel force of top cover tape shall be between 0.3 to 1.17 \mbox{N}

Product Marking:

Reel Dimension: [mm]



Packaging Quantity:



				UNIT: MM	WOLLED I
				SHEET:4/5	KOHERelec
				APPROVAL:WS	KOHER (Shanghai) Electronics Co.,Ltd
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Cautions and Warnings:

Storage Conditions:

- The storage period is within 12 months after the completion of production. Be sure to follow the storage conditions (temperature: -5 to 35°C, humidity: 75% RH Max). If the storage period elapses, the soldering of the terminal electrodes may deteriorate. The warranty period is one year.
- Product should not be exposed to environment with high temperature, high humidity, dust, corrosive gas and etc.
- Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- Please always handle products carefully to prevent any damage caused by dropping down or inappropriate removing.

Operation Instructions:

- Self heating (temperature increase) occurs when the power is turned ON, so the tolerance should be sufficient for the set thermal design.
- Before soldering, be sure to preheat components. The preheating temperature should be set so that the temperature difference between the solder temperature and chip temperature does not exceed 150°C.
- Soldering corrections after mounting should be within the range of the conditions determined in the specifications. If overheated, a short circuit, performance deterioration, or lifespan shortening may occur.
- Generally, Koher might not be familiar with either customer's specific application or actual requests as customer does. As a result customer shall be responsible for checking and confirming whether Koher product with the performance described in the product specification is suitable for using in customer's particular application or not.

				UNIT: MM	MOUGD I
				SHEET:5/5	KOHERelec
				APPROVAL:WS	KOHER (Shanghai) Electronics Co.,Ltd
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