

NRSE Series

SMD Shielded Tiny Power Inductor

Size 8040

CHARACTERISTICS

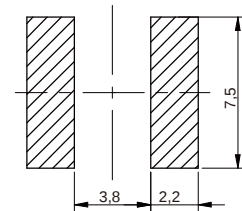
- Magnetic resin for higher current and semi-magnetically shielded
- Quantity: 1000pcs

APPLICATION

- DC/DC converter
- LC filter

Dimensions: [mm]

Land Pattern: [mm]



Electrical Properties:

Inductance (mH)	DC Resistance (mΩ)	Q	Rated Current (mA)
11.5	7.60	5	
9.85	6.30	8	
8.15	5.65	10	
7.10	5.15	12	
6.50	4.40	17	
	4.00	20	
180	3.80	24	
3.60	3.60	28	
	3.40	35	
8.50	3.10	37	
1.50	2.80	45	
2.40	2.50	56	
8.40	2.40	58	
8.90	2.00	74	
1.30/0.50	1.90	80	
	1.70	100	
	1.50	158	
	1.40	160	

Part No	(μH)	Tolerance	Satura on (A)	Temperature Rise (A)	(m Ω)	Condi on
NRSE8040-680M	68	$\pm 20\%$	1.45	1.20	196	
NRSE8040-820M	82	$\pm 20\%$	1.30	1.10	245	
NRSE8040-101M	100	$\pm 20\%$	1.15	1.00	295	
NRSE8040-121M	120	$\pm 20\%$	1.10	0.90	380	
NRSE8040-151M	150	$\pm 20\%$	1.10	0.80	470	
NRSE8040-171M	170	$\pm 20\%$	0.95	0.75	538	
NRSE8040-181M	180	$\pm 20\%$	0.90	0.75	610	
NRSE8040-221M	220	$\pm 20\%$	0.85	0.70	660	
NRSE8040-331M	330	$\pm 20\%$	0.68	0.55	970	
NRSE8040-471M	470	$\pm 20\%$	0.60	0.48	1400	
NRSE8040-561M	560	$\pm 20\%$	0.59	0.46	1650	
NRSE8040-681M	680	$\pm 20\%$	0.50	0.45	1750	
NRSE8040-102M	1000	$\pm 20\%$	0.40	0.35	2900	

Opera ng temperature : $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$

Temperature rise current: the actual value of DC current when the temperature rise is $\Delta T 40^{\circ}\text{C}$

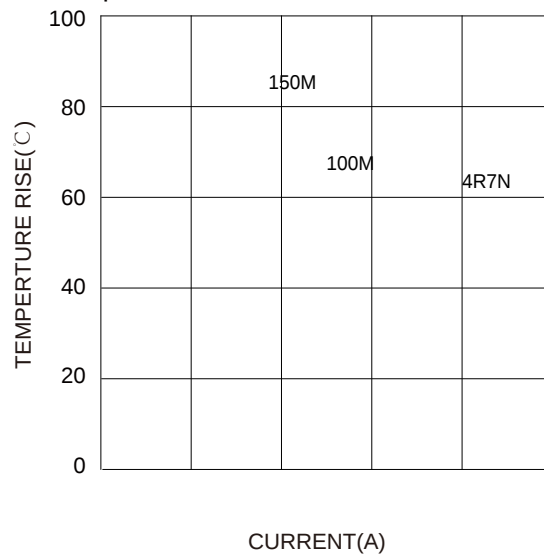
Satura on Current that will cause ini al inductance to drop approximately 30%

Typical Electrical Characteristics:

Inductance VS. Current Characteristics:



Temperture Rise VS. Current Characteristics:



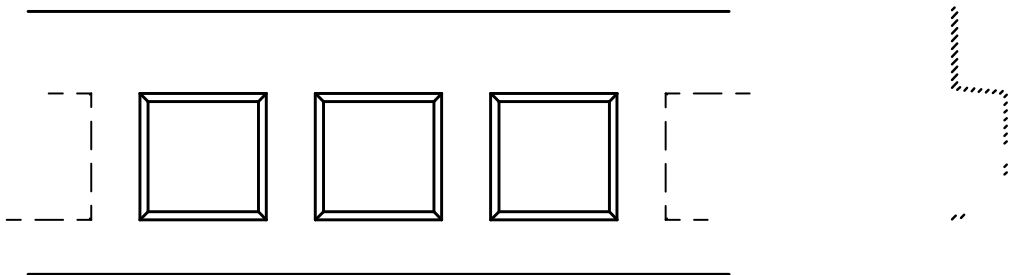


Soldering Reflow:

Preheat condition: 160 ~180℃ / 160 sec.
Allowed time above 220℃ : 50 sec.
Max temperature: 250℃ .

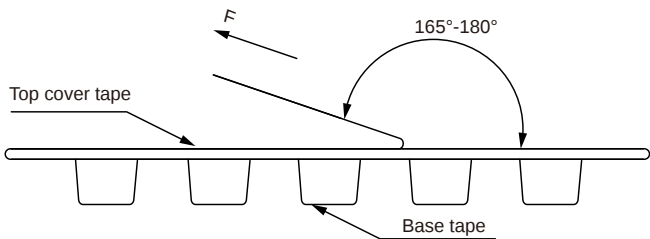
Packaging Information:

Tape Dimension :



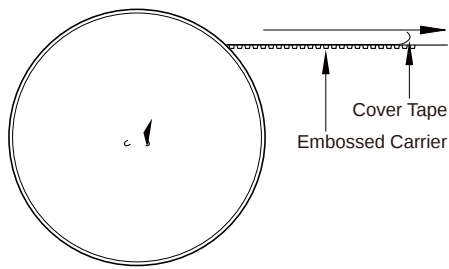
Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
LPQC6.2.	7,2. ° ., /	7,2. ° ., /	/,3. ° ., /	2,.. ° ., /	/0,.. ° ., /	/4,.. ° ., 1	2,2. ° ., /	/,53 ° ., /	.,2. ° ., .3

Peel force of top cover tape:



R f c nccj dmpac md rmn amtcp r_nc qf_jj `c `crucc l .,.1 rm .,76 L

Reel Dimension: [mm]



Packaging Quantity: