NRSE Series
SMD Shielded Tiny Power Inductor
Size 8040

CHARACTERISTICS

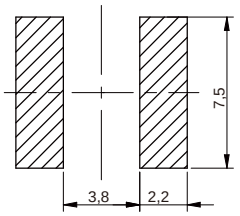
- Magne c resin for higher current and semi-magne cally shielded
- Quan ty: 1000pcs

APPLICATION

- DC/DC converter
- LC filter

Dimensions: [mm]

Land Pattern: [mm]



Electrical Properties:

	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
	R30%CT2 1 T1	1.90	80
		1.70	100
		1.50	158
		1.40	160

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

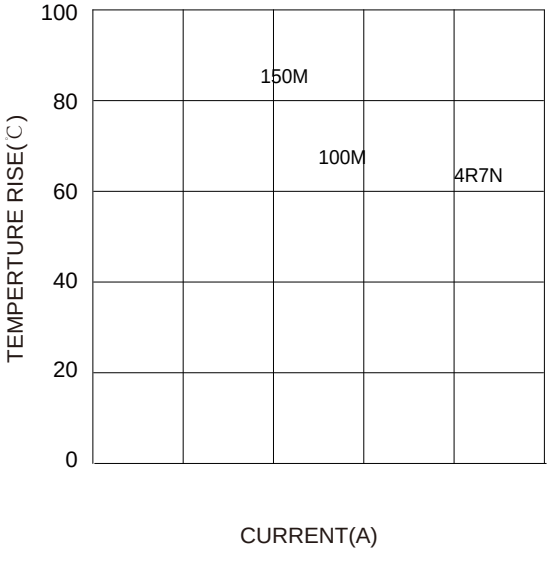
Opera ng temperature : -40℃ ~ +125℃
Temperature rise current: the actual value of DC current when the temperature rise is ΔT40℃
Satura on Current that will cause ini al inductance to drop approximately 30%

Typical Electrical Characteristics:

Inductance VS. Current Characteristics:



Temperture Rise VS. Current Characteristics:



Soldering Reflow:

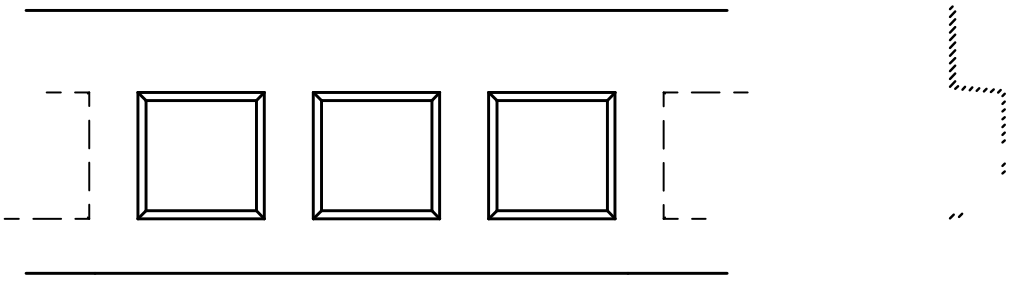
Preheat condition: 160 ~180℃/ 160 sec.

Allowed time above 220℃: 50 sec.

Max temperature: 250℃.

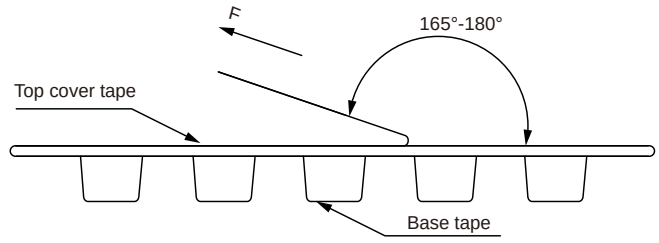
Packaging Information:

Tape Dimension:



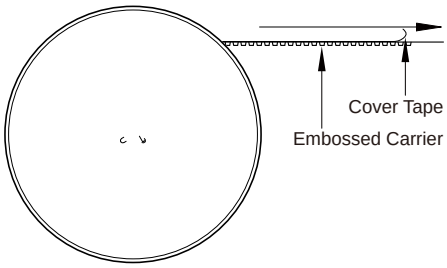
Series	A0 (mm)	B0 (mm)	D (mm)	P0 (mm)	P1 (mm)	W (mm)	K0 (mm)	E (mm)	T (mm)
LPQC6.2.	7,2.®.,/	7,2.®.,/	/,3.®.,/	2,..®.,/	/0,..®.,/	/4,..®.,1	2,2.®.,/	/,53®.,/	.,2.®.,.3

Peel force of top cover tape:



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

Reel Dimension：[mm]



Packaging Quantity: