

New Product

SURFACEMOUNT POWER INDUCTOR SERIES NSD3310

FEATURES

- RoHS compliant
- High current handling capacity
- Low DCR
- Very low profile
- Well suited to use in cell phone and LCD driver circuits

ELECTRICAL SPECIFICATIONS

- Inductance range 1.0 to 22uH
- Test condition 100kHz @ 0.1Vrms
- Test instrument Quadtech 1750

PHYSICAL SPECIFICATIONS

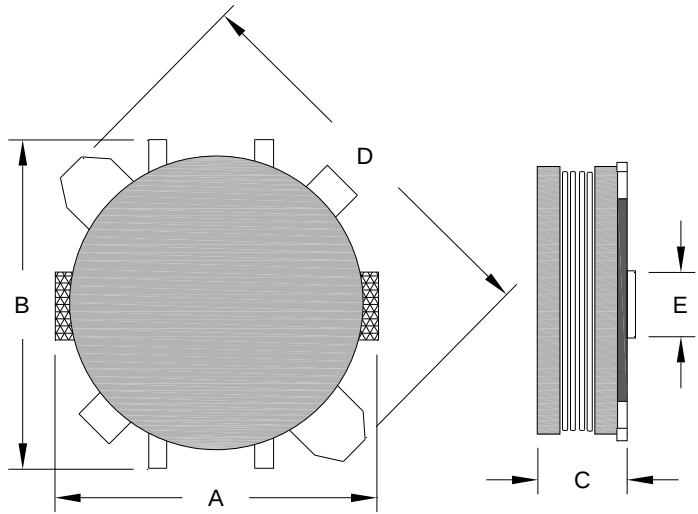
- Operating temp range -40°C to +105°C
- Core Ferrite
- Packaging T & R 5000 pieces per reel
- Tape & reel spec. Tape 12 mm carrier tape
- Reel 330 mm dia

Dimensions in millimeters

- Length A 3.0 ± 0.2
- Width B 3.0 ± 0.2
- Height C 1.0 max
- D 4.25 max
- Term width E 0.9 ref

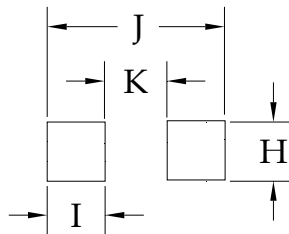
SPECIFICATIONS

Part Number	L(uH)	Tol % $\pm$	DCR (ohms) max	Saturation Current (A) (Note 1)	Rated Current (A) (Note 2)
NSD3310-1R0Y	1.0	30	0.073	1.15	2.00
NSD3310-1R5Y	1.5	30	0.089	1.00	1.70
NSD3310-2R2Y	2.2	30	0.132	0.80	1.32
NSD3310-3R3Y	3.3	30	0.252	0.65	1.05
NSD3310-4R7Y	4.7	30	0.288	0.53	0.87
NSD3310-6R8Y	6.8	30	0.348	0.45	0.83
NSD3310-100Y	10	30	0.576	0.39	0.67
NSD3310-150Y	15	30	0.852	0.32	0.49
NSD3310-220Y	22	30	1.440	0.27	0.38



Suggested PCB land pattern

- H = 1.0
- I = 1.2
- J = 3.4
- K = 1.0



Notes:

1. Based on ΔL of 10% max
 2. Based on ΔT of 40°C max
- All test data based on 25°C ambient. Part temperature (max ambient + temp rise) must not exceed 105°C under worst case operating conditions. Circuit design, other components, PCB trace size and thickness, airflow and other cooling provisions all effect the part temperature.