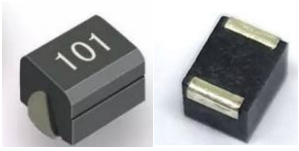
NL32T Series
Inductors for Decoupling Circuits



FEATURES

- RoHS compliant
- Lead-free materials is used for the plating on the terminals.
- The product uses metal terminals,which realize excellent connection reliability.
- High resistance to heat,humidity,mechanical shocks and presser.Accurate dimensions for automatically surface mounted.
- The product has good heat durability that withstands lead-free compatible reflow soldering conditions.
- Operate temperature range －25℃～＋85℃(Including self temp. rise)

APPLICATIONS

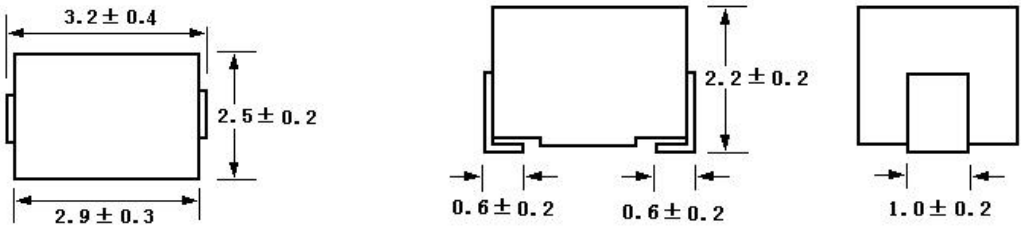
- Audio-visual equipment including TVs, VCRs and digital cameras.
- Electronic equipment used in communication infrastructures including xDSL and mobile base stations.
- Electronic equipment used in onboard automobile equipment including car audio and ECU systems.
- Other electronic equipment including HDDs and ODDs.

PRODUCT IDENTIFICATION

NL 32 T- 2R2 M T
①②③ ④ ⑤⑥

① Series Name:
② Size Code: L*W*T
③ Feature Type:Standard
④ Initial inductance value: 2R2 = 2.2uH
⑤ Inductance Tolerance:M±20%,K±10%,J±5%
⑥ Packing： Tape & Reel

Dimensions: [mm]



Electrical Characteristics List

Part No.	Inductance (μH)	Inductance tolerance	Q min.	Test frequency L,Q (MHz)	Self-resonant frequency (MHz)min.	DC resistance (Ω) max.	Rated current. (mA)max.
NL32T-R10XT	0.1	±20,±10%	28	100	700	0.44	450
NL32T-R12XT	0.12	±20,±10%	30	25.2	500	0.22	450
NL32T-R15XT	0.15	±20,±10%	30	25.2	450	0.25	450
NL32T-R18XT	0.18	±20,±10%	30	25.2	400	0.28	450
NL32T-R22XT	0.22	±20,±10%	30	25.2	350	0.32	450
NL32T-R27XT	0.27	±20,±10%	30	25.2	320	0.36	450
NL32T-R33XT	0.33	±20,±10%	30	25.2	300	0.4	450
NL32T-R39XT	0.39	±20,±10%	30	25.2	250	0.45	450
NL32T-R47XT	0.47	±20,±10%	30	25.2	220	0.5	450
NL32T-R56XT	0.56	±20,±10%	30	25.2	180	0.55	450
NL32T-R68XT	0.68	±20,±10%	30	25.2	160	0.6	450
NL32T-R82XT	0.82	±20,±10%	30	25.2	140	0.65	450
NL32T-1R0XT	1	±10,±5%	30	7.96	120	0.7	400
NL32T-1R2XT	1.2	±10,±5%	30	7.96	100	0.75	390
NL32T-1R5XT	1.5	±10,±5%	30	7.96	85	0.85	370
NL32T-1R8XT	1.8	±10,±5%	30	7.96	80	0.9	350
NL32T-2R2XT	2.2	±10,±5%	30	7.96	75	1	320
NL32T-2R7XT	2.7	±10,±5%	30	7.96	70	1.1	290
NL32T-3R3XT	3.3	±10,±5%	30	7.96	60	1.2	260
NL32T-3R9XT	3.9	±10,±5%	30	7.96	55	1.3	250
NL32T-4R7XT	4.7	±10,±5%	30	7.96	50	1.5	220
NL32T-5R6XT	5.6	±10,±5%	30	7.96	45	1.6	200
NL32T-6R8XT	6.8	±10,±5%	30	7.96	40	1.8	180
NL32T-8R2XT	8.2	±10,±5%	30	7.96	35	2	170
NL32T-100XT	10	±10,±5%	30	2.52	30	2.1	150
NL32T-120XT	12	±10,±5%	30	2.52	20	2.5	140
NL32T-150XT	15	±10,±5%	30	2.52	20	2.8	130
NL32T-180XT	18	±10,±5%	30	2.52	20	3.3	120
NL32T-220XT	22	±10,±5%	30	2.52	20	3.7	110
NL32T-270XT	27	±10,±5%	30	2.52	20	5	80
NL32T-330XT	33	±10,±5%	30	2.52	17	5.6	70
NL32T-390XT	39	±10,±5%	30	2.52	16	6.4	65
NL32T-470XT	47	±10,±5%	30	2.52	15	7	60
NL32T-560XT	56	±10,±5%	30	2.52	13	8	55
NL32T-680XT	68	±10,±5%	30	2.52	12	9	50
NL32T-820XT	82	±10,±5%	30	2.52	11	10	45
NL32T-101XT	100	±10,±5%	20	0.796	10	10	40
NL32T-121XT	120	±10,±5%	20	0.796	10	11	70
NL32T-151XT	150	±10,±5%	20	0.796	8	15	65
NL32T-181XT	180	±10,±5%	20	0.796	7	17	60
NL32T-221XT	220	±10,±5%	20	0.796	7	21	50

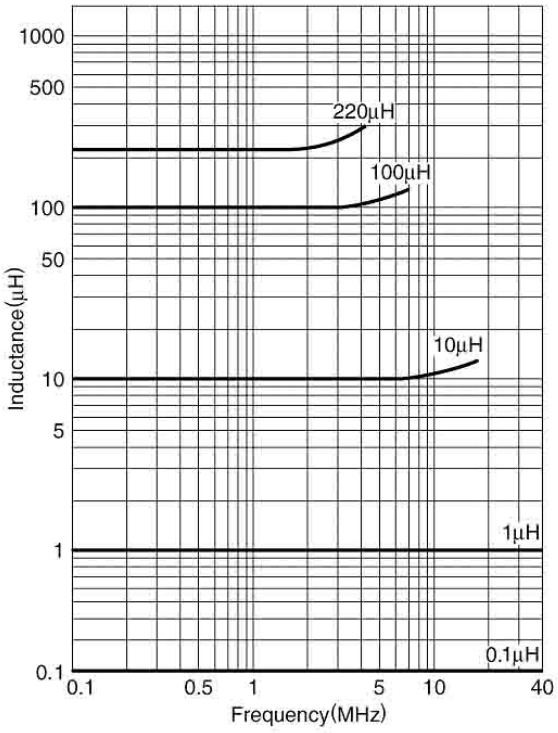
Inductance Tolerance:M±20%,K±10%,J±5%

Rated current: Value obtained when current flows and the temperature has risen to 20°C or when DC current flows and the initial value of inductance has fallen by 10%, whichever is smaller.

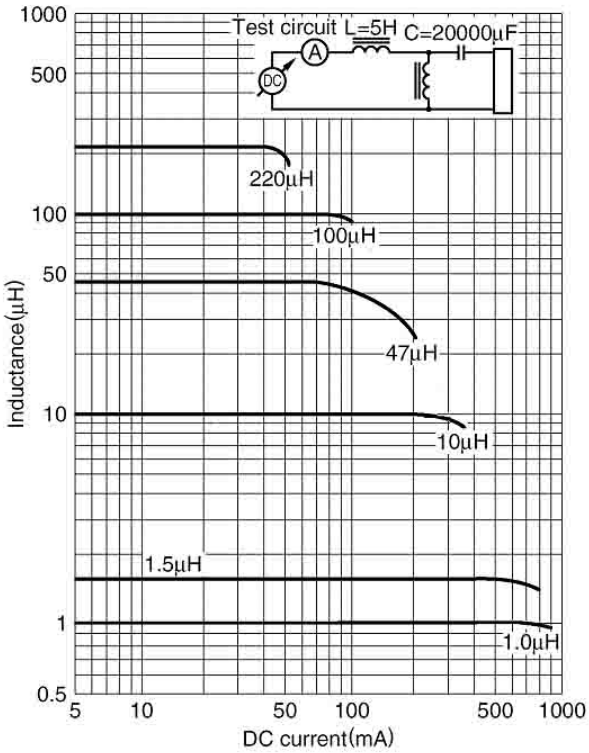
•Test equipment L, Q: HP4194A IMPEDANCE/GAIN PHASE ANALYZER+HP16085A+HP16093 B+TF-1
SRF: HP8753C NETWORK ANALYZER
Rdc: MATSUSHITA VP-2941A DIGITAL MILLIOHM METER

TYPICAL ELECTRICAL CHARACTERISTICS

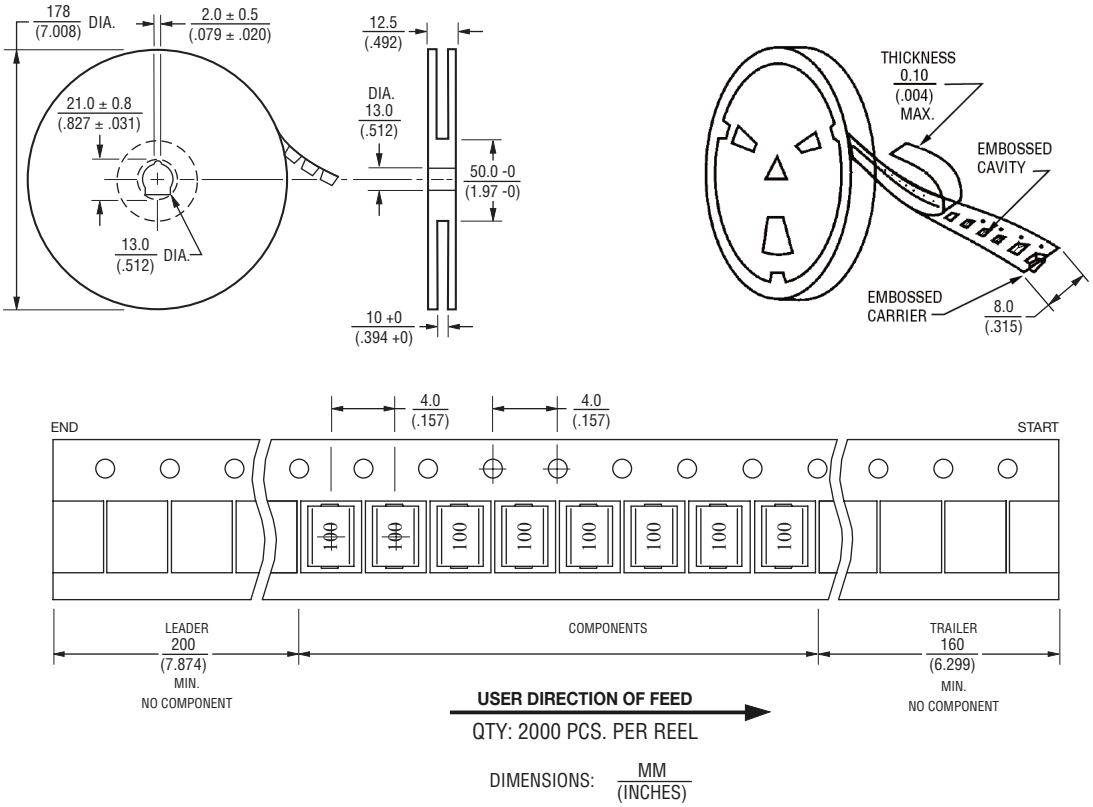
Inductance vs Frequency Characteristics



Inductance vs DC Current Characteristics



Packing



Re-flowing Profile: