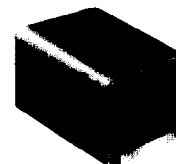


INDUCTORS

Leadless



NL SERIES

These revolutionary, high reliability leadless (wound chip) inductors have been developed in response to the trend toward higher density mounting of parts in electronic circuits. Since metal terminals are used as the electrodes and the body is molded of heat resistant resin, these inductors offer many superior features.

The NLC series is designed to eliminate EMI in power lines and have rated current in the range from 60 to 1800mA. NLC series has only half as much DC resistance and twice as much DC current.

Features

- Leaching resistant terminations due to metal tab electrodes.
- Coils encapsulated in heat-proof resin make highly accurate dimensions and resistance to mechanical shock or pressure.
- High resistance to heat and humidity.
- Matched parts on tape and reel.

Product Identification

Non-magnetic shield type

NL 45 32 32 T - □□□ □
(1) (2) (3) (4) (5) (6) (7)

Magnetic shield type

NLF 45 32 32 T - □□□ □
(1) (2) (3) (4) (5) (6) (7)

Non-magnetic shield type for large current circuits

NLC 45 32 32 T - □□□ □
(1) (2) (3) (4) (5) (6) (7)

(1) Product symbol

(2) Length

(3) Width

(4) Height

(5) Tape and reel

(6) Inductance

(7) Inductance tolerance

Contact factory for special tolerances.

Marking

Inductance (and Tolerance)

Packaging

Tape and Reel:

NL1008, NL1210, NLC1210—2,000 pieces per reel

NL1812, NLF1812, NLC1812—500 pieces per reel

NL2220, NLC2220—400 pieces per reel

Applications

- Telecommunications
- Measuring and medical equipment
- Computer and peripherals

Inductance Range

Type	Inductance (μH)	Rated current (mA) max.
NL252018T	0.01 to 100	
NL322522T	0.01 to 470	
NL453232T	270 to 1000	
NL565050T	1200 to 10000	
NLF453232T	1.00 to 1000	
NLC252018T	1.0 to 33	475 to 120
NLC322522T	1.0 to 330	850 to 60
NLC453232T	1.0 to 330	1050 to 90
NLC565050T	1.0 to 1000	1800 to 85

Standard Specifications

Type	NL252018T NL322522T NLC252018T NLC322522T	NL453232T NL565050T NLC453232T NLC565050T	NLF453232T
Characteristic			
Storage Temperature	-40 to +100°C [-40 to +212°F]	-40 to +100°C [-40 to +212°F]	-40 to +80°C [-40 to +176°F]
Operating Temperature	-20 to +100°C [-4 to +212°F] Including temperature rise in stable conditions.	-20 to +100°C [-4 to +212°F]	-20 to +80°C [-4 to +176°F]
Temperature Rise	20°C [36°F] max.	20°C [36°F] max.	20°C [36°F] max.
Ambient Temperature	80°C [176°F] max.	80°C [176°F] max.	80°C [176°F] max.
Terminal Strength	0.5kg min.	1kg min.	1kg min.
Resistance to Soldering Heat	260°C [500°F], 10 seconds		
Resistance to Solvent	Conform to MIL-STD-202E		
Current Rating	Value obtained when current flows and the temperature has risen to 20°C [36°F] or when DC current flows and the initial value of inductance has fallen by 10%, whichever is smaller.		

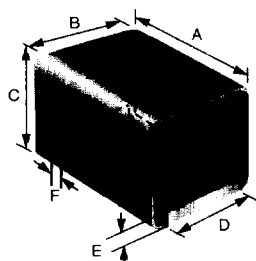
INDUCTORS

Leadless

NL SERIES

Size Chart Inches (mm)

Type	A	B	C	D	E	F
NL1008 / NL252018	0.098 (2.5)	0.079 (2.0)	0.071 (1.8)	0.055 (1.4)	0.02 (.50)	0.016 (0.40)
NL1210 / NL322522	0.126 (3.2)	0.098 (2.5)	0.087 (2.2)	0.075 (1.9)	0.02 (.50)	0.016 (0.40)
NL1812 / NL453232	0.177 (4.5)	0.126 (3.2)	0.126 (3.2)	0.102 (2.6)	0.02 (.50)	0.016 (0.40)
NL2220 / NL565050	0.220 (5.6)	0.197 (5.0)	0.197 (5.0)	0.157 (4.0)	0.039 (1.0)	0.020 (0.50)
NLF1812 / NLF453232	0.177 (4.5)	0.126 (3.2)	0.126 (3.2)	0.102 (2.6)	0.02 (.50)	0.016 (0.40)
NLC1008 / NLC252018	0.098 (2.5)	0.079 (2.0)	0.071 (1.8)	0.055 (1.4)	0.02 (.50)	0.016 (0.40)
NLC1210 / NLC322522	0.126 (3.2)	0.098 (2.5)	0.087 (2.2)	0.075 (1.9)	0.02 (.50)	0.016 (0.40)
NLC1812 / NLC453232	0.177 (4.5)	0.126 (3.2)	0.126 (3.2)	0.102 (2.6)	0.02 (.50)	0.016 (0.40)
NLC2220 / NLC565050	0.220 (5.6)	0.197 (5.0)	0.197 (5.0)	0.157 (4.0)	0.039 (1.0)	0.020 (0.50)



NL1008 TYPE

Electrical Characteristics

Distributor Part Number	TDK Manufacturing Part Number	Inductance (μH)	Q Min.	L,Q Test Freq. (MHz)	SRF (MHz) Min.	DC Resistance (Ω) Max.	Rated DC Current (mA) Max.
NL1008-010J	NL252018T-010J	0.010±5%	15	100	2150	0.26	530
NL1008-012J	NL252018T-012J	0.012±5%	15	100	2050	0.27	500
NL1008-015J	NL252018T-015J	0.015±5%	15	100	1850	0.29	480
NL1008-018J	NL252018T-018J	0.018±5%	15	100	1650	0.31	450
NL1008-022J	NL252018T-022J	0.022±5%	15	100	1550	0.37	420
NL1008-027J	NL252018T-027J	0.027±5%	15	100	1400	0.40	410
NL1008-033J	NL252018T-033J	0.033±5%	20	100	1250	0.42	400
NL1008-039J	NL252018T-039J	0.039±5%	20	100	1100	0.45	380
NL1008-047J	NL252018T-047J	0.047±5%	20	100	1050	0.50	360
NL1008-056J	NL252018T-056J	0.056±5%	20	100	950	0.60	340
NL1008-068J	NL252018T-068J	0.068±5%	20	100	900	0.65	320
NL1008-082J	NL252018T-082J	0.082±5%	20	100	850	0.75	300
NL1008-R10J	NL252018T-R10J	0.10±5%	20	100	750	0.80	280
NL1008-R12J	NL252018T-R12J	0.12±5%	30	25.2	700	0.30	550
NL1008-R15J	NL252018T-R15J	0.15±5%	30	25.2	550	0.35	500
NL1008-R18J	NL252018T-R18J	0.18±5%	30	25.2	500	0.40	460
NL1008-R22J	NL252018T-R22J	0.22±5%	30	25.2	450	0.50	430
NL1008-R27J	NL252018T-R27J	0.27±5%	30	25.2	425	0.55	420
NL1008-R33J	NL252018T-R33J	0.33±5%	30	25.2	400	0.60	400

INDUCTORS

Leadless

NL SERIES

NL1008 TYPE (Continued)

Electrical Characteristics

Distributor Part Number	TDK Manufacturing Part Number	Inductance (μ H)	Q Min.	L,Q Test Freq. (MHz)	SRF (MHz) Min.	DC Resistance (Ω) Max.	Rated DC Current (mA) Max.
NL1008-R39J	NL252018T-R39J	0.39 $\pm$ 5%	30	25.2	375	0.65	375
NL1008-R47J	NL252018T-R47J	0.47 $\pm$ 5%	30	25.2	350	0.68	350
NL1008-R56J	NL252018T-R56J	0.56 $\pm$ 5%	30	25.2	325	0.75	325
NL1008-R68J	NL252018T-R68J	0.68 $\pm$ 5%	30	25.2	300	0.85	300
NL1008-R82J	NL252018T-R82J	0.82 $\pm$ 5%	30	25.2	260	1.00	260
NL1008-1R0J	NL252018T-1R0J	1.0 $\pm$ 5%	30	7.96	245	1.10	245
NL1008-1R2J	NL252018T-1R2J	1.2 $\pm$ 5%	30	7.96	230	1.20	230
NL1008-1R5J	NL252018T-1R5J	1.5 $\pm$ 5%	30	7.96	182	1.30	220
NL1008-1R8J	NL252018T-1R8J	1.8 $\pm$ 5%	30	7.96	135	1.45	210
NL1008-2R2J	NL252018T-2R2J	2.2 $\pm$ 5%	30	7.96	105	1.55	200
NL1008-2R7J	NL252018T-2R7J	2.7 $\pm$ 5%	30	7.96	70	1.70	195
NL1008-3R3J	NL252018T-3R3J	3.3 $\pm$ 5%	30	7.96	55	1.90	185
NL1008-3R9J	NL252018T-3R9J	3.9 $\pm$ 5%	30	7.96	48	2.10	180
NL1008-4R7J	NL252018T-4R7J	4.7 $\pm$ 5%	30	7.96	43	2.30	175
NL1008-5R6J	NL252018T-5R6J	5.6 $\pm$ 5%	25	7.96	42	2.50	170
NL1008-6R8J	NL252018T-6R8J	6.8 $\pm$ 5%	25	7.96	39	2.70	165
NL1008-8R2J	NL252018T-8R2J	8.2 $\pm$ 5%	25	7.96	36	3.05	160
NL1008-100J	NL252018T-100J	10 $\pm$ 5%	25	2.52	33	3.50	155
NL1008-120J	NL252018T-120J	12 $\pm$ 5%	25	2.52	30	3.80	150
NL1008-150J	NL252018T-150J	15 $\pm$ 5%	25	2.52	26	4.40	140
NL1008-180J	NL252018T-180J	18 $\pm$ 5%	25	2.52	24	4.80	130
NL1008-220J	NL252018T-220J	22 $\pm$ 5%	25	2.52	22	5.50	125
NL1008-270J	NL252018T-270J	27 $\pm$ 5%	25	2.52	21	6.30	115
NL1008-330J	NL252018T-330J	33 $\pm$ 5%	25	2.52	20	7.10	110
NL1008-390J	NL252018T-390J	39 $\pm$ 5%	20	2.52	18	9.50	90
NL1008-470J	NL252018T-470J	47 $\pm$ 5%	20	2.52	17	11.10	80
NL1008-560J	NL252018T-560J	56 $\pm$ 5%	20	2.52	16	12.10	75
NL1008-680J	NL252018T-680J	68 $\pm$ 5%	20	2.52	15	16.60	70
NL1008-820J	NL252018T-820J	82 $\pm$ 5%	20	2.52	13	19.00	66
NL1008-101J	NL252018T-101J	100 $\pm$ 5%	15	0.796	12	21.00	60

INDUCTORS

Leadless

NL SERIES

NL1210 TYPE

Electrical Characteristics

Distributor Part Number	TDK Manufacturing Part Number	Inductance (μ H)	Q Min.	LQ Test Freq. (MHz)	SRF (MHz) Min.	DC Resistance (Ω) Max.	Rated DC Current (mA) Max.
NL1210-010J	NL322522T-010J	0.010 $\pm$ 5%	15	100	2500	0.13	450
NL1210-012J	NL322522T-012J	0.012 $\pm$ 5%	17	100	2300	0.14	450
NL1210-015J	NL322522T-015J	0.015 $\pm$ 5%	19	100	2100	0.16	450
NL1210-018J	NL322522T-018J	0.018 $\pm$ 5%	21	100	1900	0.18	450
NL1210-022J	NL322522T-022J	0.022 $\pm$ 5%	23	100	1700	0.20	450
NL1210-027J	NL322522T-027J	0.027 $\pm$ 5%	23	100	1500	0.22	450
NL1210-033J	NL322522T-033J	0.033 $\pm$ 5%	25	100	1400	0.24	450
NL1210-039J	NL322522T-039J	0.039 $\pm$ 5%	25	100	1300	0.27	450
NL1210-047J	NL322522T-047J	0.047 $\pm$ 5%	26	100	1200	0.30	450
NL1210-056J	NL322522T-056J	0.056 $\pm$ 5%	26	100	1100	0.33	450
NL1210-068J	NL322522T-068J	0.068 $\pm$ 5%	27	100	1000	0.36	450
NL1210-082J	NL322522T-082J	0.082 $\pm$ 5%	27	100	900	0.40	450
NL1210-R10J	NL322522T-R10J	0.10 $\pm$ 5%	28	100	700	0.44	450
NL1210-R12J	NL322522T-R12J	0.12 $\pm$ 5%	30	25.2	500	0.22	450
NL1210-R15J	NL322522T-R15J	0.15 $\pm$ 5%	30	25.2	450	0.25	450
NL1210-R18J	NL322522T-R18J	0.18 $\pm$ 5%	30	25.2	400	0.28	450
NL1210-R22J	NL322522T-R22J	0.22 $\pm$ 5%	30	25.2	350	0.32	450
NL1210-R27J	NL322522T-R27J	0.27 $\pm$ 5%	30	25.2	320	0.36	450
NL1210-R33J	NL322522T-R33J	0.33 $\pm$ 5%	30	25.2	300	0.40	450
NL1210-R39J	NL322522T-R39J	0.39 $\pm$ 5%	30	25.2	250	0.45	450
NL1210-R47J	NL322522T-R47J	0.47 $\pm$ 5%	30	25.2	220	0.50	450
NL1210-R56J	NL322522T-R56J	0.56 $\pm$ 5%	30	25.2	180	0.55	450
NL1210-R68J	NL322522T-R68J	0.68 $\pm$ 5%	30	25.2	160	0.60	450
NL1210-R82J	NL322522T-R82J	0.82 $\pm$ 5%	30	25.2	140	0.65	450
NL1210-1R0J	NL322522T-1R0J	1.0 $\pm$ 5%	30	7.96	120	0.70	400
NL1210-1R2J	NL322522T-1R2J	1.2 $\pm$ 5%	30	7.96	100	0.75	390
NL1210-1R5J	NL322522T-1R5J	1.5 $\pm$ 5%	30	7.96	85	0.85	370
NL1210-1R8J	NL322522T-1R8J	1.8 $\pm$ 5%	30	7.96	80	0.90	350
NL1210-2R2J	NL322522T-2R2J	2.2 $\pm$ 5%	30	7.96	75	1.0	320
NL1210-2R7J	NL322522T-2R7J	2.7 $\pm$ 5%	30	7.96	70	1.1	290
NL1210-3R3J	NL322522T-3R3J	3.3 $\pm$ 5%	30	7.96	60	1.2	260
NL1210-3R9J	NL322522T-3R9J	3.9 $\pm$ 5%	30	7.96	55	1.3	250
NL1210-4R7J	NL322522T-4R7J	4.7 $\pm$ 5%	30	7.96	50	1.5	220
NL1210-5R6J	NL322522T-5R6J	5.6 $\pm$ 5%	30	7.96	45	1.6	200
NL1210-6R8J	NL322522T-6R8J	6.8 $\pm$ 5%	30	7.96	40	1.8	180
NL1210-8R2J	NL322522T-8R2J	8.2 $\pm$ 5%	30	7.96	35	2.0	170
NL1210-100J	NL322522T-100J	10 $\pm$ 5%	30	2.52	30	2.1	150
NL1210-120J	NL322522T-120J	12 $\pm$ 5%	30	2.52	20	2.5	140
NL1210-150J	NL322522T-150J	15 $\pm$ 5%	30	2.52	20	2.8	130
NL1210-180J	NL322522T-180J	18 $\pm$ 5%	30	2.52	20	3.3	120
NL1210-220J	NL322522T-220J	22 $\pm$ 5%	30	2.52	20	3.7	110
NL1210-270J	NL322522T-270J	27 $\pm$ 5%	30	2.52	20	5.0	80
NL1210-330J	NL322522T-330J	33 $\pm$ 5%	30	2.52	17	5.6	70

INDUCTORS

Leadless

NL SERIES

NL1210 TYPE (Continued)

Electrical Characteristics

Distributor Part Number	TDK Manufacturing Part Number	Inductance (μ H)	Q Min.	L,Q Test Freq. (MHz)	SRF (MHz) Min.	DC Resistance (Ω) Max.	Rated DC Current (mA) Max.
NL1210-390J	NL322522T-390J	39 $\pm$ 5%	30	2.52	16	6.4	65
NL1210-470J	NL322522T-470J	47 $\pm$ 5%	30	2.52	15	7.0	60
NL1210-560J	NL322522T-560J	56 $\pm$ 5%	30	2.52	13	8.0	55
NL1210-680J	NL322522T-680J	68 $\pm$ 5%	30	2.52	12	9.0	50
NL1210-820J	NL322522T-820J	82 $\pm$ 5%	30	2.52	11	10.0	45
NL1210-101J	NL322522T-101J	100 $\pm$ 5%	20	0.796	10	10.0	40
NL1210-121J	NL322522T-121J	120 $\pm$ 5%	20	0.796	10	11.0	70
NL1210-151J	NL322522T-151J	150 $\pm$ 5%	20	0.796	8	15.0	65
NL1210-181J	NL322522T-181J	180 $\pm$ 5%	20	0.796	7	17.0	60
NL1210-221J	NL322522T-221J	220 $\pm$ 5%	20	0.796	7	21.0	50
NL1210-271J	NL322522T-271J	270 $\pm$ 5%	20	0.796	6	28.0	45
NL1210-331J	NL322522T-331J	330 $\pm$ 5%	20	0.796	5	34.0	40
NL1210-391J	NL322522T-391J	390 $\pm$ 5%	20	0.796	5	42.0	35
NL1210-471J	NL322522T-471J	470 $\pm$ 5%	20	0.796	4	40.0	25

NL1812 TYPE

Distributor Part Number	TDK Manufacturing Part Number	Inductance (μ H)	Q Min.	L,Q Test Freq. (MHz)	SRF (MHz) Min.	DC Resistance (Ω) Max.	Rated DC Current (mA) Max.
NL1812-271J	NL453232T-271J	270 $\pm$ 5%	40	0.796	4.0	12.0	92
NL1812-331J	NL453232T-331J	330 $\pm$ 5%	40	0.796	3.5	14.0	85
NL1812-391J	NL453232T-391J	390 $\pm$ 5%	40	0.796	3.0	16.0	80
NL1812-471J	NL453232T-471J	470 $\pm$ 5%	40	0.796	3.0	26.0	62
NL1812-561J	NL453232T-561J	560 $\pm$ 5%	30	0.796	3.0	30.0	50
NL1812-681J	NL453232T-681J	680 $\pm$ 5%	30	0.796	3.0	30.0	50
NL1812-821J	NL453232T-821J	820 $\pm$ 5%	30	0.796	2.5	35.0	30
NL1812-102J	NL453232T-102J	1000 $\pm$ 5%	30	0.252	2.5	40.0	30

NL2220 TYPE

Distributor Part Number	TDK Manufacturing Part Number	Inductance (μ H)	Q Min.	L,Q Test Freq. (MHz)	SRF (MHz) Min.	DC Resistance (Ω) Max.	Rated DC Current (mA) Max.
NL2220-122J	NL565050T-122J	1200 $\pm$ 5%	30	0.252	1.5	17	75
NL2220-152J	NL565050T-152J	1500 $\pm$ 5%	30	0.252	1.4	20	70
NL2220-182J	NL565050T-182J	1800 $\pm$ 5%	30	0.252	1.3	30	60
NL2220-222J	NL565050T-222J	2200 $\pm$ 5%	30	0.252	1.2	35	55
NL2220-272J	NL565050T-272J	2700 $\pm$ 5%	30	0.252	1.1	55	45
NL2220-332J	NL565050T-332J	3300 $\pm$ 5%	30	0.252	1.0	60	40
NL2220-392J	NL565050T-392J	3900 $\pm$ 5%	30	0.252	1.0	70	38
NL2220-472J	NL565050T-472J	4700 $\pm$ 5%	30	0.252	0.9	78	36
NL2220-562J	NL565050T-562J	5600 $\pm$ 5%	30	0.252	0.8	85	33
NL2220-682J	NL565050T-682J	6800 $\pm$ 5%	30	0.252	0.7	110	30
NL2220-822J	NL565050T-822J	8200 $\pm$ 5%	30	0.252	0.6	125	28
NL2220-103J	NL565050T-103J	10000 $\pm$ 5%	20	0.0796	0.5	150	25

INDUCTORS

Leadless

NLF SERIES

NLF1812 TYPE (Shielded Type)

Electrical Characteristics

Distributor Part Number	TDK Manufacturing Part Number	Inductance (μH)	Q Min.	L/Q Test Freq. (MHz)	SRF (MHz) Min.	DC Resistance (Ω) Max.	Rated DC Current (mA) Max.
NLF1812-1R0M	NLF453232T-1R0M	1.0±20%	30	7.96	140.0	0.35	150
NLF1812-1R2M	NLF453232T-1R2M	1.2±20%	30	7.96	120.0	0.38	145
NLF1812-1R5M	NLF453232T-1R5M	1.5±20%	30	7.96	100.0	0.42	140
NLF1812-1R8M	NLF453232T-1R8M	1.8±20%	30	7.96	90.0	0.48	120
NLF1812-2R2M	NLF453232T-2R2M	2.2±20%	30	7.96	80.0	0.50	110
NLF1812-2R7M	NLF453232T-2R7M	2.7±20%	30	7.96	70.0	0.55	105
NLF1812-3R3M	NLF453232T-3R3M	3.3±20%	30	7.96	65.0	0.60	100
NLF1812-3R9M	NLF453232T-3R9M	3.9±20%	30	7.96	60.0	0.66	90
NLF1812-4R7M	NLF453232T-4R7M	4.7±20%	30	7.96	55.0	0.71	85
NLF1812-5R6M	NLF453232T-5R6M	5.6±20%	30	7.96	45.0	0.75	80
NLF1812-6R8M	NLF453232T-6R8M	6.8±20%	30	7.96	40.0	0.90	70
NLF1812-8R2M	NLF453232T-8R2M	8.2±20%	30	7.96	35.0	1.00	65
NLF1812-100K	NLF453232T-100K	10±10%	50	2.52	30.0	1.10	60
NLF1812-120K	NLF453232T-120K	12±10%	50	2.52	27.0	1.20	58
NLF1812-150K	NLF453232T-150K	15±10%	50	2.52	24.0	1.30	55
NLF1812-180K	NLF453232T-180K	18±10%	50	2.52	22.0	1.45	52
NLF1812-220K	NLF453232T-220K	22±10%	50	2.52	20.0	1.60	48
NLF1812-270K	NLF453232T-270K	27±10%	50	2.52	17.0	1.90	44
NLF1812-330K	NLF453232T-330K	33±10%	50	2.52	15.0	2.00	42
NLF1812-390K	NLF453232T-390K	39±10%	50	2.52	13.0	2.20	40
NLF1812-470K	NLF453232T-470K	47±10%	50	2.52	12.0	2.40	38
NLF1812-560K	NLF453232T-560K	56±10%	50	2.52	11.0	2.65	36
NLF1812-680K	NLF453232T-680K	68±10%	50	2.52	10.0	3.00	33
NLF1812-820K	NLF453232T-820K	82±10%	50	2.52	10.0	3.30	31
NLF1812-101K	NLF453232T-101K	100±10%	50	0.796	9.0	3.80	29
NLF1812-121K	NLF453232T-121K	120±10%	50	0.796	8.0	4.50	27
NLF1812-151K	NLF453232T-151K	150±10%	50	0.796	7.0	5.70	26
NLF1812-181K	NLF453232T-181K	180±10%	40	0.796	6.0	6.30	24
NLF1812-221K	NLF453232T-221K	220±10%	40	0.796	5.5	6.90	23
NLF1812-271K	NLF453232T-271K	270±10%	40	0.796	5.0	7.60	23
NLF1812-331K	NLF453232T-331K	330±10%	40	0.796	4.5	9.00	20
NLF1812-391K	NLF453232T-391K	390±10%	40	0.796	4.0	9.50	19
NLF1812-471K	NLF453232T-471K	470±10%	40	0.796	3.8	10.50	18
NLF1812-561K	NLF453232T-561K	560±10%	40	0.796	3.6	12.00	17
NLF1812-681K	NLF453232T-681K	680±10%	40	0.796	3.4	13.50	16
NLF1812-821K	NLF453232T-821K	820±10%	40	0.796	3.0	16.00	15
NLF1812-102K	NLF453232T-102K	1000±10%	40	0.252	2.5	18.00	14

INDUCTORS

Leadless

NLC SERIES

NLC1008 TYPE

Electrical Characteristics

Distributor Part Number	TDK Manufacturing Part Number	Inductance (μ H)	Q Min.	LQ Test Freq. (MHz)	SRF (MHz) Min.	DC Resistance (Ω) Max.	Rated DC Current (mA) Max.
NLC1008-1R0M	NLC252018T-1R0M	1.0 $\pm$ 20%	20	7.96	200	0.45	475
NLC1008-1R5M	NLC252018T-1R5M	1.5 $\pm$ 20%	20	7.96	165	0.55	435
NLC1008-2R2M	NLC252018T-2R2M	2.2 $\pm$ 20%	20	7.96	95	0.65	390
NLC1008-3R3M	NLC252018T-3R3M	3.3 $\pm$ 20%	20	7.96	55	0.85	340
NLC1008-4R7M	NLC252018T-4R7M	4.7 $\pm$ 20%	20	7.96	43	1.2	285
NLC1008-6R8M	NLC252018T-6R8M	6.8 $\pm$ 20%	20	7.96	39	1.3	275
NLC1008-100K	NLC252018T-100K	10 $\pm$ 10%	30	2.52	32	2.2	210
NLC1008-150K	NLC252018T-150K	15 $\pm$ 10%	30	2.52	21	3.2	175
NLC1008-220K	NLC252018T-220K	22 $\pm$ 10%	30	2.52	18	4	160
NLC1008-330K	NLC252018T-330K	33 $\pm$ 10%	30	2.52	16	6.5	120

NLC1210 TYPE

Electrical Characteristics

Distributor Part Number	TDK Manufacturing Part Number	Inductance (μ H)	Q Min.	LQ Test Freq. (MHz)	SRF (MHz) Min.	DC Resistance (Ω) Max.	Rated DC Current (mA) Max.
NLC1210-1R0M	NLC322522T-1R0M	1.0 $\pm$ 20%	10	7.96	100	0.15	850
NLC1210-1R5M	NLC322522T-1R5M	1.5 $\pm$ 20%	10	7.96	80	0.18	700
NLC1210-2R2M	NLC322522T-2R2M	2.2 $\pm$ 20%	10	7.96	68	0.23	600
NLC1210-3R3M	NLC322522T-3R3M	3.3 $\pm$ 20%	10	7.96	54	0.28	500
NLC1210-4R7M	NLC322522T-4R7M	4.7 $\pm$ 20%	15	7.96	46	0.34	430
NLC1210-6R8M	NLC322522T-6R8M	6.8 $\pm$ 20%	15	7.96	38	0.42	360
NLC1210-100K	NLC322522T-100K	10 $\pm$ 10%	15	2.52	30	0.50	300
NLC1210-150K	NLC322522T-150K	15 $\pm$ 10%	15	2.52	26	0.74	250
NLC1210-220K	NLC322522T-220K	22 $\pm$ 10%	15	2.52	21	1.15	210
NLC1210-330K	NLC322522T-330K	33 $\pm$ 10%	15	2.52	17	1.65	170
NLC1210-470K	NLC322522T-470K	47 $\pm$ 10%	15	2.52	14	2.25	150
NLC1210-680K	NLC322522T-680K	68 $\pm$ 10%	15	2.52	12	3.70	120
NLC1210-101K	NLC322522T-101K	100 $\pm$ 10%	15	0.796	10	5.00	100
NLC1210-151K	NLC322522T-151K	150 $\pm$ 10%	20	0.796	8	8.00	85
NLC1210-221K	NLC322522T-221K	220 $\pm$ 10%	20	0.796	7	11.00	70
NLC1210-331K	NLC322522T-331K	330 $\pm$ 10%	20	0.796	6	16.00	60

INDUCTORS

Leadless

NLC SERIES

NLC1812 TYPE

Electrical Characteristics

Distributor Part Number	TDK Manufacturing Part Number	Inductance (μ H)	Q Min.	L/Q Test Freq. (MHz)	SRF (MHz) Min.	DC Resistance (Ω) Max.	Rated DC Current (mA) Max.
NLC1812-1R0K	NLC453232T-1R0K	1.0 $\pm$ 10%	10	7.96	200.0	0.11	1050
NLC1812-1R2K	NLC453232T-1R2K	1.2 $\pm$ 10%	10	7.96	160.0	0.12	1000
NLC1812-1R5K	NLC453232T-1R5K	1.5 $\pm$ 10%	10	7.96	130.0	0.15	950
NLC1812-1R8K	NLC453232T-1R8K	1.8 $\pm$ 10%	10	7.96	100.0	0.16	900
NLC1812-2R2K	NLC453232T-2R2K	2.2 $\pm$ 10%	10	7.96	80.0	0.18	850
NLC1812-2R7K	NLC453232T-2R7K	2.7 $\pm$ 10%	10	7.96	60.0	0.20	800
NLC1812-3R3K	NLC453232T-3R3K	3.3 $\pm$ 10%	10	7.96	45.0	0.22	750
NLC1812-3R9K	NLC453232T-3R9K	3.9 $\pm$ 10%	10	7.96	40.0	0.24	700
NLC1812-4R7K	NLC453232T-4R7K	4.7 $\pm$ 10%	10	7.96	35.0	0.27	650
NLC1812-5R6K	NLC453232T-5R6K	5.6 $\pm$ 10%	10	7.96	30.0	0.30	650
NLC1812-6R8K	NLC453232T-6R8K	6.8 $\pm$ 10%	10	7.96	28.0	0.35	600
NLC1812-8R2K	NLC453232T-8R2K	8.2 $\pm$ 10%	10	7.96	25.0	0.40	600
NLC1812-100K	NLC453232T-100K	10 $\pm$ 10%	10	2.52	22.0	0.50	550
NLC1812-120K	NLC453232T-120K	12 $\pm$ 10%	10	2.52	21.0	0.60	500
NLC1812-150K	NLC453232T-150K	15 $\pm$ 10%	10	2.52	20.0	0.70	450
NLC1812-180K	NLC453232T-180K	18 $\pm$ 10%	10	2.52	19.0	0.80	400
NLC1812-220K	NLC453232T-220K	22 $\pm$ 10%	10	2.52	18.0	0.90	370
NLC1812-270K	NLC453232T-270K	27 $\pm$ 10%	10	2.52	16.0	1.20	330
NLC1812-330K	NLC453232T-330K	33 $\pm$ 10%	10	2.52	14.0	1.40	300
NLC1812-390K	NLC453232T-390K	39 $\pm$ 10%	10	2.52	12.0	1.60	280
NLC1812-470K	NLC453232T-470K	47 $\pm$ 10%	10	2.52	11.5	1.90	260
NLC1812-560K	NLC453232T-560K	56 $\pm$ 10%	10	2.52	11.0	2.20	240
NLC1812-680K	NLC453232T-680K	68 $\pm$ 10%	10	2.52	10.0	2.60	220
NLC1812-820K	NLC453232T-820K	82 $\pm$ 10%	10	2.52	9.0	3.50	200
NLC1812-101K	NLC453232T-101K	100 $\pm$ 10%	20	0.796	8.0	4.00	180
NLC1812-121K	NLC453232T-121K	120 $\pm$ 10%	20	0.796	7.5	4.50	160
NLC1812-151K	NLC453232T-151K	150 $\pm$ 10%	20	0.796	7.0	6.50	140
NLC1812-181K	NLC453232T-181K	180 $\pm$ 10%	20	0.796	6.5	7.50	120
NLC1812-221K	NLC453232T-221K	220 $\pm$ 10%	20	0.796	5.5	9.00	120
NLC1812-271K	NLC453232T-271K	270 $\pm$ 10%	20	0.796	5.0	11.00	100
NLC1812-331K	NLC453232T-331K	330 $\pm$ 10%	20	0.796	4.0	13.00	90

INDUCTORS

Leadless

NLC SERIES

NLC2220 TYPE

Electrical Characteristics

Distributor Part Number	TDK Manufacturing Part Number	Inductance (μH)	Q Min.	L/Q Test Freq. (MHz)	SRF (MHz) Min.	DC Resistance (Ω) Max.	Rated DC Current (mA) Max.
NLC2220-1R0K	NLC565050T-1R0K	1.0±10%	10	7.96	95.0	0.03	1800
NLC2220-1R2K	NLC565050T-1R2K	1.2±10%	10	7.96	70.0	0.035	1700
NLC2220-1R5K	NLC565050T-1R5K	1.5±10%	10	7.96	55.0	0.04	1600
NLC2220-1R8K	NLC565050T-1R8K	1.8±10%	10	7.96	47.0	0.05	1400
NLC2220-2R2K	NLC565050T-2R2K	2.2±10%	10	7.96	42.0	0.06	1300
NLC2220-2R7K	NLC565050T-2R7K	2.7±10%	10	7.96	37.0	0.07	1200
NLC2220-3R3K	NLC565050T-3R3K	3.3±10%	10	7.96	34.0	0.08	1120
NLC2220-3R9K	NLC565050T-3R9K	3.9±10%	10	7.96	32.0	0.09	1050
NLC2220-4R7K	NLC565050T-4R7K	4.7±10%	10	7.96	29.0	0.11	950
NLC2220-5R6K	NLC565050T-5R6K	5.6±10%	10	7.96	26.0	0.13	880
NLC2220-6R8K	NLC565050T-6R8K	6.8±10%	10	7.96	24.0	0.15	810
NLC2220-8R2K	NLC565050T-8R2K	8.2±10%	10	7.96	22.0	0.18	750
NLC2220-100K	NLC565050T-100K	10±10%	10	2.52	19.0	0.21	690
NLC2220-120K	NLC565050T-120K	12±10%	10	2.52	17.0	0.25	630
NLC2220-150K	NLC565050T-150K	15±10%	10	2.52	16.0	0.30	580
NLC2220-180K	NLC565050T-180K	18±10%	10	2.52	14.0	0.36	530
NLC2220-220K	NLC565050T-220K	22±10%	10	2.52	13.0	0.43	480
NLC2220-270K	NLC565050T-270K	27±10%	10	2.52	11.5	0.52	440
NLC2220-330K	NLC565050T-330K	33±10%	10	2.52	10.5	0.62	400
NLC2220-390K	NLC565050T-390K	39±10%	10	2.52	9.5	0.72	370
NLC2220-470K	NLC565050T-470K	47±10%	10	2.52	8.5	0.85	340
NLC2220-560K	NLC565050T-560K	56±10%	10	2.52	7.8	1.00	310
NLC2220-680K	NLC565050T-680K	68±10%	10	2.52	7.0	1.20	290
NLC2220-820K	NLC565050T-820K	82±10%	10	2.52	6.4	1.40	270
NLC2220-101K	NLC565050T-101K	100±10%	20	0.796	6.0	1.60	250
NLC2220-121K	NLC565050T-121K	120±10%	20	0.796	5.4	1.90	230
NLC2220-151K	NLC565050T-151K	150±10%	20	0.796	4.8	2.20	210
NLC2220-181K	NLC565050T-181K	180±10%	20	0.796	4.4	2.80	190
NLC2220-221K	NLC565050T-221K	220±10%	20	0.796	3.9	3.40	170
NLC2220-271K	NLC565050T-271K	270±10%	20	0.796	3.6	4.20	155
NLC2220-331K	NLC565050T-331K	330±10%	20	0.796	3.2	4.90	140
NLC2220-391K	NLC565050T-391K	390±10%	20	0.796	2.9	5.80	130
NLC2220-471K	NLC565050T-471K	470±10%	20	0.796	2.6	7.0	120
NLC2220-561K	NLC565050T-561K	560±10%	20	0.796	2.4	8.50	110
NLC2220-681K	NLC565050T-681K	680±10%	20	0.796	2.2	10.00	100
NLC2220-821K	NLC565050T-821K	820±10%	20	0.796	2.0	13.00	90
NLC2220-102K	NLC565050T-102K	1000±10%	20	0.252	1.8	15.00	85