

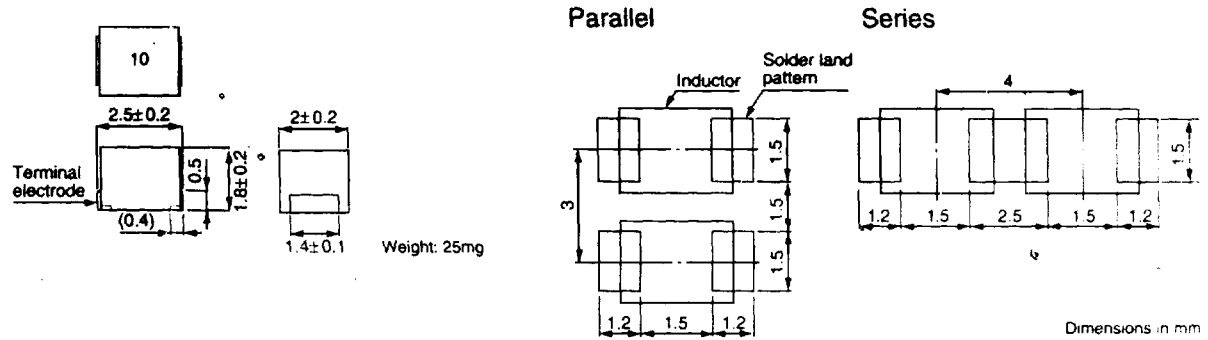
# INDUCTORS

Leadless

## NLC SERIES

### NLC1008 TYPE

Shapes and Dimensions/Recommended PC Board Patterns



### Electrical Characteristics

Distributor Part Number	TDK Manufacturing Part Number	Inductance ( $\mu$ H)	Q Min.	L,Q Test Freq. (MHz)	SRF (MHz) Min.	DC Resistance ( $\Omega$ ) 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

INDUCTORS

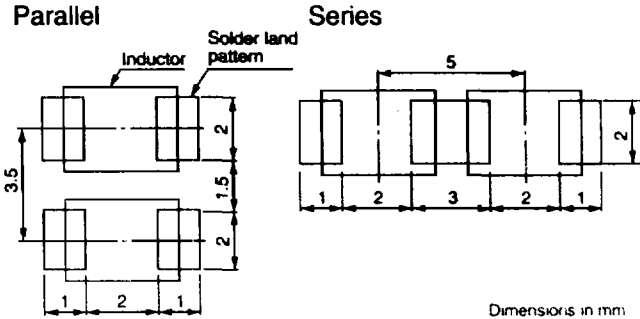
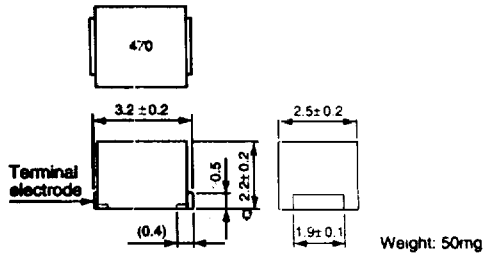
# INDUCTORS

Leadless

## NLC SERIES

### NLC1210TYPE

#### Shapes and Dimensions/Recommended PC Board Patterns



INDUCTORS

#### Electrical Characteristics

	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.
NLC1210-1R0M	NLC322522T-1R0M	1.0±20%	10	7.96	100	0.15	850
NLC1210-1R5M	NLC322522T-1R5M	1.5±20%	10	7.96	80	0.18	700
NLC1210-2R2M	NLC322522T-2R2M	2.2±20%	10	7.96	68	0.23	600
NLC1210-3R3M	NLC322522T-3R3M	3.3±20%	10	7.96	54	0.28	500
NLC1210-4R7M	NLC322522T-4R7M	4.7±20%	15	7.96	46	0.34	430
NLC1210-6R8M	NLC322522T-6R8M	6.8±20%	15	7.96	38	0.42	360
NLC1210-100K	NLC322522T-100K	10±10%	15	2.52	30	0.50	300
NLC1210-150K	NLC322522T-150K	15±10%	15	2.52	26	0.74	250
NLC1210-220K	NLC322522T-220K	22±10%	15	2.52	21	1.15	210
NLC1210-330K	NLC322522T-330K	33±10%	15	2.52	17	1.65	170
NLC1210-470K	NLC322522T-470K	47±10%	15	2.52	14	2.25	150
NLC1210-680K	NLC322522T-680K	68±10%	15	2.52	12	3.70	120
NLC1210-101K	NLC322522T-101K	100±10%	15	0.796	10	5.00	100
NLC1210-151K	NLC322522T-151K	150±10%	20	0.796	8	8.00	85
NLC1210-221K	NLC322522T-221K	220±10%	20	0.796	7	11.00	70
NLC1210-331K	NLC322522T-331K	330±10%	20	0.796	6	16.00	60

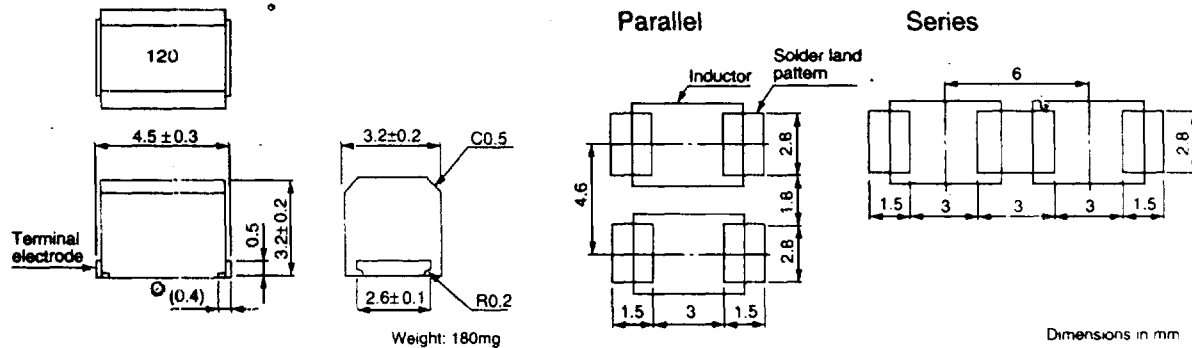
# INDUCTORS

Leadless

NLC SERIES

## NLC1812 TYPE

Shapes and Dimensions/Recommended PC Board Patterns



### Electrical Characteristics

Distributor Part Number	TDK Manufacturing Part Number	Inductance (μH)	Q Min.	LQ Test Freq. (MHz)	SRF (MHz) Min.	DC Resistance (Ω) Max.	Rated DC Current (mA) Max.
NLC1812-1R0K	NLC453232T-1R0K	1.0±10%	10	7.96	200.0	0.11	1050
NLC1812-1R2K	NLC453232T-1R2K	1.2±10%	10	7.96	160.0	0.12	1000
NLC1812-1R5K	NLC453232T-1R5K	1.5±10%	10	7.96	130.0	0.15	950
NLC1812-1R8K	NLC453232T-1R8K	1.8±10%	10	7.96	100.0	0.16	900
NLC1812-2R2K	NLC453232T-2R2K	2.2±10%	10	7.96	80.0	0.18	850
NLC1812-2R7K	NLC453232T-2R7K	2.7±10%	10	7.96	60.0	0.20	800
NLC1812-3R3K	NLC453232T-3R3K	3.3±10%	10	7.96	45.0	0.22	750
NLC1812-3R9K	NLC453232T-3R9K	3.9±10%	10	7.96	40.0	0.24	700
NLC1812-4R7K	NLC453232T-4R7K	4.7±10%	10	7.96	35.0	0.27	650
NLC1812-5R6K	NLC453232T-5R6K	5.6±10%	10	7.96	30.0	0.30	650
NLC1812-6R8K	NLC453232T-6R8K	6.8±10%	10	7.96	28.0	0.35	600
NLC1812-8R2K	NLC453232T-8R2K	8.2±10%	10	7.96	25.0	0.40	600
NLC1812-100K	NLC453232T-100K	10±10%	10	2.52	22.0	0.50	550
NLC1812-120K	NLC453232T-120K	12±10%	10	2.52	21.0	0.60	500
NLC1812-150K	NLC453232T-150K	15±10%	10	2.52	20.0	0.70	450
NLC1812-180K	NLC453232T-180K	18±10%	10	2.52	19.0	0.80	400
NLC1812-220K	NLC453232T-220K	22±10%	10	2.52	18.0	0.90	370
NLC1812-270K	NLC453232T-270K	27±10%	10	2.52	16.0	1.20	330
NLC1812-330K	NLC453232T-330K	33±10%	10	2.52	14.0	1.40	300
NLC1812-390K	NLC453232T-390K	39±10%	10	2.52	12.0	1.60	280
NLC1812-470K	NLC453232T-470K	47±10%	10	2.52	11.5	1.90	260
NLC1812-560K	NLC453232T-560K	56±10%	10	2.52	11.0	2.20	240

INDUCTORS

# INDUCTORS

Leadless

## NLC SERIES

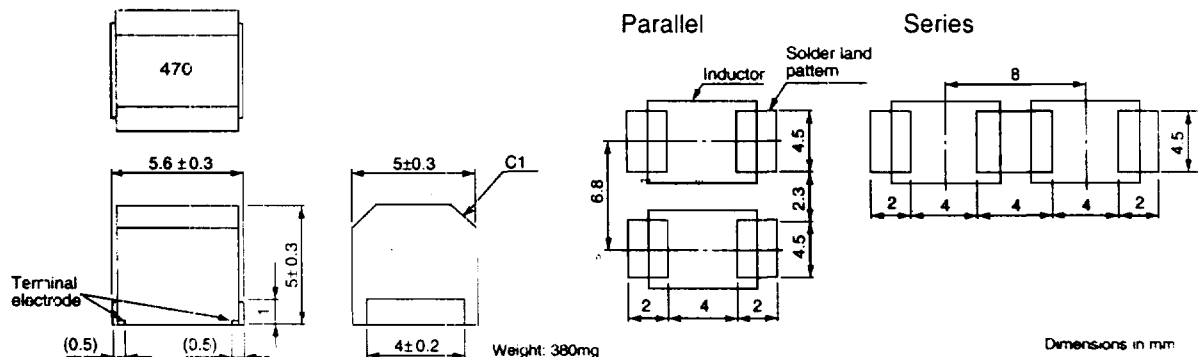
### NLC1812 TYPE (Continued)

#### Electrical Characteristics

Distributor Part Number	TDK Manufacturing Part Number	Inductance ( $\mu$ H)	Q Min.	L,Q Test Freq. (MHz)	SRF (MHz) Min.	DC Resistance ( $\Omega$ ) Max.	Rated DC Current (mA) Max.
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

### NLC2220 TYPE

#### Shapes and Dimensions/Recommended PC Board Patterns



#### Electrical Characteristics

Distributor Part Number	TDK Manufacturing Part Number	Inductance ( $\mu$ H)	Q Min.	L,Q Test Freq. (MHz)	SRF (MHz) Min.	DC Resistance ( $\Omega$ ) Max.	Rated DC Current (mA) Max.
NLC2220-1R0K	NLC565050T-1R0K	1.0 $\pm$ 10%	10	7.96	95.0	0.03	1800
NLC2220-1R2K	NLC565050T-1R2K	1.2 $\pm$ 10%	10	7.96	70.0	0.035	1700
NLC2220-1R5K	NLC565050T-1R5K	1.5 $\pm$ 10%	10	7.96	55.0	0.04	1600
NLC2220-1R8K	NLC565050T-1R8K	1.8 $\pm$ 10%	10	7.96	47.0	0.05	1400
NLC2220-2R2K	NLC565050T-2R2K	2.2 $\pm$ 10%	10	7.96	42.0	0.06	1300
NLC2220-2R7K	NLC565050T-2R7K	2.7 $\pm$ 10%	10	7.96	37.0	0.07	1200
NLC2220-3R3K	NLC565050T-3R3K	3.3 $\pm$ 10%	10	7.96	34.0	0.08	1120

# INDUCTORS

Leadless

NLC SERIES

NLC2220 TYPE (Continued)

## Electrical Characteristics

Distributor Part Number	TDK Manufacturing Part Number	Inductance ( $\mu$ H)	Q Min.	LQ Test Freq. (MHz)	SRF (MHz) Min.	DC Resistance ( $\Omega$ ) Max.	Rated DC Current (mA) Max.
NLC2220-3R9K	NLC565050T-3R9K	3.9 $\pm$ 10%	10	7.96	32.0	0.09	1050
NLC2220-4R7K	NLC565050T-4R7K	4.7 $\pm$ 10%	10	7.96	29.0	0.11	950
NLC2220-5R6K	NLC565050T-5R6K	5.6 $\pm$ 10%	10	7.96	26.0	0.13	880
NLC2220-6R8K	NLC565050T-6R8K	6.8 $\pm$ 10%	10	7.96	24.0	0.15	810
NLC2220-8R2K	NLC565050T-8R2K	8.2 $\pm$ 10%	10	7.96	22.0	0.18	750
NLC2220-100K	NLC565050T-100K	10 $\pm$ 10%	10	2.52	19.0	0.21	690
NLC2220-120K	NLC565050T-120K	12 $\pm$ 10%	10	2.52	17.0	0.25	630
NLC2220-150K	NLC565050T-150K	15 $\pm$ 10%	10	2.52	16.0	0.30	580
NLC2220-180K	NLC565050T-180K	18 $\pm$ 10%	10	2.52	14.0	0.36	530
NLC2220-220K	NLC565050T-220K	22 $\pm$ 10%	10	2.52	13.0	0.43	480
NLC2220-270K	NLC565050T-270K	27 $\pm$ 10%	10	2.52	11.5	0.52	440
NLC2220-330K	NLC565050T-330K	33 $\pm$ 10%	10	2.52	10.5	0.62	400
NLC2220-390K	NLC565050T-390K	39 $\pm$ 10%	10	2.52	9.5	0.72	370
NLC2220-470K	NLC565050T-470K	47 $\pm$ 10%	10	2.52	8.5	0.85	340
NLC2220-560K	NLC565050T-560K	56 $\pm$ 10%	10	2.52	7.8	1.00	310
NLC2220-680K	NLC565050T-680K	68 $\pm$ 10%	10	2.52	7.0	1.20	290
NLC2220-820K	NLC565050T-820K	82 $\pm$ 10%	10	2.52	6.4	1.40	270
NLC2220-101K	NLC565050T-101K	100 $\pm$ 10%	20	0.796	6.0	1.60	250
NLC2220-121K	NLC565050T-121K	120 $\pm$ 10%	20	0.796	5.4	1.90	230
NLC2220-151K	NLC565050T-151K	150 $\pm$ 10%	20	0.796	4.8	2.20	210
NLC2220-181K	NLC565050T-181K	180 $\pm$ 10%	20	0.796	4.4	2.80	190
NLC2220-221K	NLC565050T-221K	220 $\pm$ 10%	20	0.796	3.9	3.40	170
NLC2220-271K	NLC565050T-271K	270 $\pm$ 10%	20	0.796	3.6	4.20	155
NLC2220-331K	NLC565050T-331K	330 $\pm$ 10%	20	0.796	3.2	4.90	140
NLC2220-391K	NLC565050T-391K	390 $\pm$ 10%	20	0.796	2.9	5.80	130
NLC2220-471K	NLC565050T-471K	470 $\pm$ 10%	20	0.796	2.6	7.0	120
NLC2220-561K	NLC565050T-561K	560 $\pm$ 10%	20	0.796	2.4	8.50	110
NLC2220-681K	NLC565050T-681K	680 $\pm$ 10%	20	0.796	2.2	10.00	100
NLC2220-821K	NLC565050T-821K	820 $\pm$ 10%	20	0.796	2.0	13.00	90
NLC2220-102K	NLC565050T-102K	1000 $\pm$ 10%	20	0.252	1.8	15.00	85

INDUCTORS