



ELECTRICAL CHARACTERISTICS NL322522 SERIES

PART NO.	INDUCTANCE (μ H)	TOLERANCE ($\pm\%$)	Q Min.	TEST FREQUENCY (MHz)	SRF (MHz) Min.	DC RESISTANCE (Ω) Max.	IDC (mA) Max.
NL322522T-010K-S	0.010	10	15	100	2500	0.13	450
NL322522T-012K-S	0.012	10	17	100	2300	0.14	450
NL322522T-015K-S	0.015	10	19	100	2100	0.16	450
NL322522T-018K-S	0.018	10	21	100	1900	0.18	450
NL322522T-022K-S	0.022	10	23	100	1700	0.20	450
NL322522T-027K-S	0.027	10	23	100	1500	0.22	450
NL322522T-033K-S	0.033	10	25	100	1400	0.24	450
NL322522T-039K-S	0.039	10	25	100	1300	0.27	450
NL322522T-047K-S	0.047	10	26	100	1200	0.30	450
NL322522T-056K-S	0.056	10	26	100	1100	0.33	450
NL322522T-068K-S	0.068	10	27	100	1000	0.36	450
NL322522T-082K-S	0.082	10	27	100	900	0.40	450
NL322522T-R10K-S	0.10	10	28	100	700	0.44	450
NL322522T-R12K-S	0.12	10	30	25.20	500	0.22	450
NL322522T-R15K-S	0.15	10	30	25.20	450	0.25	450
NL322522T-R18K-S	0.18	10	30	25.20	400	0.28	450
NL322522T-R22K-S	0.22	10	30	25.20	350	0.32	450
NL322522T-R27K-S	0.27	10	30	25.20	320	0.36	450
NL322522T-R33K-S	0.33	10	30	25.20	300	0.40	450
NL322522T-R39K-S	0.39	10	30	25.20	250	0.45	450
NL322522T-R47K-S	0.47	10	30	25.20	220	0.50	450
NL322522T-R56K-S	0.56	10	30	25.20	180	0.55	450
NL322522T-R68K-S	0.68	10	30	25.20	160	0.60	450
NL322522T-R82K-S	0.82	10	30	25.20	140	0.65	450
NL322522T-1R0K-S	1.00	10	30	7.960	90	0.70	400
NL322522T-1R2K-S	1.20	10	30	7.960	85	0.75	390
NL322522T-1R5K-S	1.50	10	30	7.960	70	0.85	370
NL322522T-1R8K-S	1.80	10	30	7.960	60	0.90	350
NL322522T-2R2K-S	2.20	10	30	7.960	50	1.00	320
NL322522T-2R7K-S	2.70	10	30	7.960	45	1.10	290
NL322522T-3R3K-S	3.30	10	30	7.960	40	1.20	260
NL322522T-3R9K-S	3.90	10	30	7.960	37	1.30	250



ELECTRICAL CHARACTERISTICS NL322522 SERIES

PART NO.	INDUCTANCE (μ H)	TOLERANCE ($\pm\%$)	Q Min.	TEST FREQUENCY (MHz)	SRF (MHz) Min.	DC RESISTANCE (Ω) Max.	IDC (mA) Max.
NL322522T-4R7K-S	4.70	10	30	7.960	32	1.50	220
NL322522T-5R6K-S	5.60	10	30	7.960	30	1.60	200
NL322522T-6R8K-S	6.80	10	30	7.960	28	1.80	180
NL322522T-8R2K-S	8.20	10	30	7.960	25	2.00	170
NL322522T-100K-S	10	10	30	2.520	23	2.10	150
NL322522T-120K-S	12	10	30	2.520	20	2.50	140
NL322522T-150K-S	15	10	30	2.520	19	2.80	130
NL322522T-180K-S	18	10	30	2.520	17	3.30	120
NL322522T-220K-S	22	10	30	2.520	16	3.70	110
NL322522T-270K-S	27	10	30	2.520	14	5.00	80
NL322522T-330K-S	33	10	30	2.520	13	5.60	70
NL322522T-390K-S	39	10	30	2.520	12	6.40	65
NL322522T-470K-S	47	10	30	2.520	10	7.00	60
NL322522T-560K-S	56	10	30	2.520	9	8.00	55
NL322522T-680K-S	68	10	30	2.520	9	9.00	50
NL322522T-820K-S	82	10	30	2.520	8	10.0	45
NL322522T-101K-S	100	10	20	0.796	7	10.0	40
NL322522T-121K-S	120	10	20	0.796	7	11.0	70
NL322522T-151K-S	150	10	20	0.796	6	15.0	65
NL322522T-181K-S	180	10	20	0.796	6	17.0	60
NL322522T-221K-S	220	10	20	0.796	5	21.0	50
NL322522T-271K-S	270	10	20	0.796	6	22.0	45
NL322522T-331K-S	330	10	20	0.796	5	34.0	40

- S R F : HP4291A
- RDC : CH502BC / HP4338B
- IDC : HP4284A + HP42841A

- L/Q : HP4287A(0.10 μ H MAX)
- L / Q : HP4285A + HP16034E (0.12 μ H MIN)
- IDC: Δ L / L : -10%



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

PART NO.	INDUCTANCE (μ H)	TEST FREQ (MHz)	Q Min.	SRF (MHz) Min.	RDC (Ω) Max.	IDC (mA) Max.	TOLERANCE ($\pm$ %)
NL322522T-010 □ -N	0.01	100	15	2500	0.13	450	10
NL322522T-012 □ -N	0.012	100	17	2300	0.14	450	10
NL322522T-015 □ -N	0.015	100	19	2100	0.16	450	10
NL322522T-018 □ -N	0.018	100	21	1900	0.18	450	10
NL322522T-022 □ -N	0.022	100	23	1700	0.2	450	10
NL322522T-027 □ -N	0.027	100	23	1500	0.22	450	10
NL322522T-033 □ -N	0.033	100	25	1400	0.24	450	10
NL322522T-039 □ -N	0.039	100	25	1300	0.27	450	10
NL322522T-047 □ -N	0.047	100	26	1200	0.3	450	10
NL322522T-056 □ -N	0.056	100	26	1100	0.33	450	10
NL322522T-068 □ -N	0.068	100	27	1000	0.36	450	10
NL322522T-082 □ -N	0.082	100	27	900	0.4	450	10
NL322522T-R10 □ -N	0.1	100	28	700	0.44	450	5,10,20
NL322522T-R12 □ -N	0.12	25.2	30	500	0.22	450	5,10,20
NL322522T-R15 □ -N	0.15	25.2	30	450	0.25	450	5,10,20
NL322522T-R18 □ -N	0.18	25.2	30	400	0.28	450	5,10,20
NL322522T-R22 □ -N	0.22	25.2	30	350	0.32	450	5,10,20
NL322522T-R27 □ -N	0.27	25.2	30	320	0.36	450	5,10,20
NL322522T-R33 □ -N	0.33	25.2	30	300	0.4	450	5,10,20
NL322522T-R39 □ -N	0.39	25.2	30	250	0.45	450	5,10,20
NL322522T-R47 □ -N	0.47	25.2	30	220	0.5	450	5,10,20
NL322522T-R56 □ -N	0.56	25.2	30	180	0.55	450	5,10,20
NL322522T-R68 □ -N	0.68	25.2	30	160	0.6	450	5,10,20
NL322522T-R82 □ -N	0.82	25.2	30	140	0.65	450	5,10,20
NL322522T-IR0 □ -N	1	7.96	30	90	0.7	400	5,10
NL322522T-IR2 □ -N	1.2	7.96	30	85	0.75	390	5,10
NL322522T-IR5 □ -N	1.5	7.96	30	70	0.85	370	5,10
NL322522T-IR8 □ -N	1.8	7.96	30	60	0.9	350	5,10
NL322522T-2R2 □ -N	2.2	7.96	30	50	1	320	5,10
NL322522T-2R7 □ -N	2.7	7.96	30	45	1.1	290	5,10
NL322522T-3R3 □ -N	3.3	7.96	30	40	1.2	260	5,10
NL322522T-3R9 □ -N	3.9	7.96	30	37	1.3	250	5,10
NL322522T-4R7 □ -N	4.7	7.96	30	32	1.5	220	5,10
NL322522T-5R6 □ -N	5.6	7.96	30	30	1.6	200	5,10
NL322522T-6R8 □ -N	6.8	7.96	30	28	1.8	180	5,10
NL322522T-8R2 □ -N	8.2	7.96	30	25	2	170	5,10
NL322522T-100 □ -N	10	2.52	30	23	2.1	150	5,10
NL322522T-120 □ -N	12	2.52	30	20	2.5	140	5,10
NL322522T-150 □ -N	15	2.52	30	19	2.8	130	5,10
NL322522T-180 □ -N	18	2.52	30	17	3.3	120	5,10
NL322522T-220 □ -N	22	2.52	30	16	3.7	110	5,10
NL322522T-270 □ -N	27	2.52	30	14	5	80	5,10
NL322522T-330 □ -N	33	2.52	30	13	5.6	70	5,10
NL322522T-390 □ -N	39	2.52	30	12	6.4	65	5,10
NL322522T-470 □ -N	47	2.52	30	10	7	60	5,10
NL322522T-560 □ -N	56	2.52	30	9	8	55	5,10
NL322522T-680 □ -N	68	2.52	30	9	9	50	5,10
NL322522T-820 □ -N	82	2.52	30	8	10	45	5,10
NL322522T-101 □ -N	100	0.796	20	7	10	40	5,10
NL322522T-121 □ -N	120	0.796	20	7	11	70	5,10
NL322522T-151 □ -N	150	0.796	20	6	15	65	5,10
NL322522T-181 □ -N	180	0.796	20	6	17	60	5,10
NL322522T-221 □ -N	220	0.796	20	5	21	50	5,10
NL322522T-271 □ -N	270	0.796	20	6	22	45	5,10
NL322522T-331 □ -N	330	0.796	20	5	34	40	5,10

NOTE: □-tolerance J= $\pm 5\%$ / K= $\pm 10\%$ / M= $\pm 20\%$

1. Operating temperature range -25°C~85°C

2. IDC: Applied the current to coils, the inductance shall be less than 10% initial value.

3. L, Q (010~R10) Test OSC@502mV / L, Q (R10~331) Test OSC@1V

"-N" FOR COMPLETELY LEAD FREE TYPE (INCLUDING FERRITE BODY & SOLDER)



ELECTRICAL CHARACTERISTICS NL453232 SERIES

PART NO.	INDUCTANCE (μ H)	TOLERANCE ($\pm\%$)	Q Min.	TEST FREQUENCY (MHz)	SRF (MHz) Min.	DC RESISTANCE (Ω) Max.	IDC (mA) Max.
NL453232T-R10M-S	0.10	20	28	25.20	700	0.44	450
NL453232T-R12M-S	0.12	20	30	25.20	500	0.22	450
NL453232T-R15M-S	0.15	20	30	25.20	450	0.25	450
NL453232T-R18M-S	0.18	20	30	25.20	400	0.28	450
NL453232T-R22M-S	0.22	20	30	25.20	350	0.32	450
NL453232T-R27M-S	0.27	20	30	25.20	320	0.36	450
NL453232T-R33M-S	0.33	20	30	25.20	300	0.40	450
NL453232T-R39M-S	0.39	20	30	25.20	250	0.45	450
NL453232T-R47M-S	0.47	20	30	25.20	220	0.50	450
NL453232T-R56M-S	0.56	20	30	25.20	180	0.55	450
NL453232T-R68M-S	0.68	20	30	25.20	160	0.60	450
NL453232T-R82M-S	0.82	20	30	25.20	140	0.67	450
NL453232T-1R0K-S	1.00	10	50	7.960	100	0.50	450
NL453232T-1R2K-S	1.20	10	50	7.960	80	0.55	430
NL453232T-1R5K-S	1.50	10	50	7.960	70	0.60	410
NL453232T-1R8K-S	1.80	10	50	7.960	60	0.65	390
NL453232T-2R2K-S	2.20	10	50	7.960	55	0.70	380
NL453232T-2R7K-S	2.70	10	50	7.960	50	0.75	370
NL453232T-3R3K-S	3.30	10	50	7.960	45	0.80	355
NL453232T-3R9K-S	3.90	10	50	7.960	40	0.90	330
NL453232T-4R7K-S	4.70	10	50	7.960	35	1.00	315
NL453232T-5R6K-S	5.60	10	50	7.960	33	1.10	300
NL453232T-6R8K-S	6.80	10	50	7.960	27	1.20	285
NL453232T-8R2K-S	8.20	10	50	7.960	25	1.40	270
NL453232T-100K-S	10	10	50	2.520	20	1.60	250
NL453232T-120K-S	12	10	50	2.520	18	2.00	225
NL453232T-150K-S	15	10	50	2.520	17	2.50	200
NL453232T-180K-S	18	10	50	2.520	15	2.80	190
NL453232T-220K-S	22	10	50	2.520	13	3.20	180
NL453232T-270K-S	27	10	50	2.520	12	3.60	170
NL453232T-330K-S	33	10	50	2.520	11	4.00	160
NL453232T-390K-S	39	10	50	2.520	10	4.50	150
NL453232T-470K-S	47	10	50	2.520	10	5.00	140
NL453232T-560K-S	56	10	50	2.520	9	5.50	135
NL453232T-680K-S	68	10	50	2.520	9	6.00	130
NL453232T-820K-S	82	10	50	2.520	8	7.00	120
NL453232T-101K-S	100	10	40	0.796	8	8.00	110
NL453232T-121K-S	120	10	40	0.796	6	8.00	110
NL453232T-151K-S	150	10	40	0.796	5	9.00	105
NL453232T-181K-S	180	10	40	0.796	5	9.50	102
NL453232T-221K-S	220	10	40	0.796	4	12.00	100
NL453232T-271K-S	270	10	30	0.796	4	18.00	92
NL453232T-331K-S	330	10	30	0.796	3.5	20.00	85
NL453232T-391K-S	390	10	30	0.796	3	23.00	80
NL453232T-471K-S	470	10	30	0.796	3	26.00	62
NL453232T-561K-S	560	10	30	0.796	3	30.00	50
NL453232T-681K-S	680	10	30	0.796	3	40.00	50
NL453232T-821K-S	820	10	30	0.796	2.5	45.00	30
NL453232T-102K-S	1000	10	30	0.796	2.5	50.00	30



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

PART NO.	INDUCTANCE (μ H)	TEST FREQ (MHz)	Q Min.	SRF (MHz) Min.	RDC (Ω) Max.	IDC (mA) Max.	TOLERANCE ($\pm$ %)
NL453232T-R10 □ -N	0.1	25.2	28	700	0.44	450	5,10,20
NL453232T-R12 □ -N	0.12	25.2	30	500	0.22	450	5,10,20
NL453232T-R15 □ -N	0.15	25.2	30	450	0.25	450	5,10,20
NL453232T-R18 □ -N	0.18	25.2	30	400	0.28	450	5,10,20
NL453232T-R22 □ -N	0.22	25.2	30	350	0.32	450	5,10,20
NL453232T-R27 □ -N	0.27	25.2	30	320	0.36	450	5,10,20
NL453232T-R33 □ -N	0.33	25.2	30	300	0.4	450	5,10,20
NL453232T-R39 □ -N	0.39	25.2	30	250	0.45	450	5,10,20
NL453232T-R47 □ -N	0.47	25.2	30	220	0.5	450	5,10,20
NL453232T-R56 □ -N	0.56	25.2	30	180	0.55	450	5,10,20
NL453232T-R68 □ -N	0.68	25.2	30	160	0.6	450	5,10,20
NL453232T-R82 □ -N	0.82	25.2	30	140	0.67	450	5,10,20
NL453232T-1R0 □ -N	1	7.96	50	100	0.5	450	5,10
NL453232T-1R2 □ -N	1.2	7.96	50	80	0.55	430	5,10
NL453232T-1R5 □ -N	1.5	7.96	50	70	0.6	410	5,10
NL453232T-1R8 □ -N	1.8	7.96	50	60	0.65	390	5,10
NL453232T-2R2 □ -N	2.2	7.96	50	55	0.7	380	5,10
NL453232T-2R7 □ -N	2.7	7.96	50	50	0.75	370	5,10
NL453232T-3R3 □ -N	3.3	7.96	50	45	0.8	355	5,10
NL453232T-3R9 □ -N	3.9	7.96	50	40	0.9	330	5,10
NL453232T-4R7 □ -N	4.7	7.96	50	35	1	315	5,10
NL453232T-5R6 □ -N	5.6	7.96	50	33	1.1	300	5,10
NL453232T-6R8 □ -N	6.8	7.96	50	27	1.2	285	5,10
NL453232T-8R2 □ -N	8.2	7.96	50	25	1.4	270	5,10
NL453232T-100 □ -N	10	2.52	50	20	1.6	250	5,10
NL453232T-120 □ -N	12	2.52	50	18	2	225	5,10
NL453232T-150 □ -N	15	2.52	50	17	2.5	200	5,10
NL453232T-180 □ -N	18	2.52	50	15	2.8	190	5,10
NL453232T-220 □ -N	22	2.52	50	13	3.2	180	5,10
NL453232T-270 □ -N	27	2.52	50	12	3.6	170	5,10
NL453232T-330 □ -N	33	2.52	50	11	4	160	5,10
NL453232T-390 □ -N	39	2.52	50	10	4.5	150	5,10
NL453232T-470 □ -N	47	2.52	50	10	5	140	5,10
NL453232T-560 □ -N	56	2.52	50	9	5.5	135	5,10
NL453232T-680 □ -N	68	2.52	50	9	6	130	5,10
NL453232T-820 □ -N	82	2.52	50	8	7	120	5,10
NL453232T-101 □ -N	100	0.796	40	8	8	110	5,10
NL453232T-121 □ -N	120	0.796	40	6	8	110	5,10
NL453232T-151 □ -N	150	0.796	40	5	9	105	5,10
NL453232T-181 □ -N	180	0.796	40	5	9.5	102	5,10
NL453232T-221 □ -N	220	0.796	40	4	12	100	5,10
NL453232T-271 □ -N	270	0.796	30	4	18	92	5,10
NL453232T-331 □ -N	330	0.796	30	3.5	20	85	5,10
NL453232T-391 □ -N	390	0.796	30	3	23	80	5,10
NL453232T-471 □ -N	470	0.796	30	3	26	62	5,10
NL453232T-561 □ -N	560	0.796	30	3	30	50	5,10
NL453232T-681 □ -N	680	0.796	30	3	40	50	5,10
NL453232T-821 □ -N	820	0.796	30	2.5	45	30	5,10
NL453232T-102 □ -N	1000	0.796	30	2.5	50	30	5,10

NOTE: □ -tolerance J= $\pm 5\%$ /K= $\pm 10\%$ / M= $\pm 20\%$

1. Operating temperature range -25°C~85°C

2. IDC: Applied the current to coils, the inductance shall be less than 10% initial value.

"-N" FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)



ELECTRICAL CHARACTERISTICS

Dimensions : mm

PART NO.	INDUCTANCE (mH)	TOLERANCE (±%)	Q Min.	TEST FREQUENCY (MHz)	SRF (MHz) Min.	DC RESISTANCE (Ω) Max.	IDC (mA) Max.
NL565050T-122J-S	1.2	5, 10	30	0.252	1.5	17	75
NL565050T-152J-S	1.5	5, 10	30	0.252	1.4	20	70
NL565050T-182J-S	1.8	5, 10	30	0.252	1.3	30	60
NL565050T-222J-S	2.2	5, 10	30	0.252	1.2	35	55
NL565050T-272J-S	2.7	5, 10	30	0.252	1.1	55	45
NL565050T-332J-S	3.3	5, 10	30	0.252	1	60	40
NL565050T-392J-S	3.9	5, 10	30	0.252	1	70	38
NL565050T-472J-S	4.7	5, 10	30	0.252	0.9	78	36
NL565050T-562J-S	5.6	5, 10	30	0.252	0.8	85	33
NL565050T-682J-S	6.8	5, 10	30	0.252	0.7	110	30
NL565050T-822J-S	8.2	5, 10	30	0.252	0.6	125	28
NL565050T-103J-S	10	5, 10	20	0.0796	0.5	150	25

- L/Q : HP4285A+HP16034E
- S R F : HP4291A
- RDC : CH502BC / HP4338B

- IDC : HP4284A + HP42841A
- IDC : ΔL/L : -10%

ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

PART NO.	INDUCTANCE (μH)	TEST FREQ (MHz)	Q Min.	SRF (MHz) Min.	RDC (Ω) Max.	IDC (mA) Max.	TOLERANCE (±%)
NL565050T-122 □ -N	1200	0.252	30	1.5	17	75	5, 10
NL565050T-152 □ -N	1500	0.252	30	1.4	20	70	5, 10
NL565050T-182 □ -N	1800	0.252	30	1.3	30	60	5, 10
NL565050T-222 □ -N	2200	0.252	30	1.2	35	55	5, 10
NL565050T-272 □ -N	2700	0.252	30	1.1	55	45	5, 10
NL565050T-332 □ -N	3300	0.252	30	1	60	40	5, 10
NL565050T-392 □ -N	3900	0.252	30	1	70	38	5, 10
NL565050T-472 □ -N	4700	0.252	30	0.9	78	36	5, 10
NL565050T-562 □ -N	5600	0.252	30	0.8	85	33	5, 10
NL565050T-682 □ -N	6800	0.252	30	0.7	110	30	5, 10
NL565050T-822 □ -N	8200	0.252	30	0.6	125	28	5, 10
NL565050T-103 □ -N	10000	0.0796	20	0.5	150	25	5, 10

NOTE: □-tolerance J= ±5% / K= ±10% / M=± 20%

1. Operating temperature range -25°C~85°C

2. IDC: Applied the current to coils, the inductance shall be less than 10% initial value.

"-N" FOR COMPLETELY LEAD FREE TYPE (INCLUDING FERRITE BODY & SOLDER)



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

PART NO.	INDUCTANCE (μ H)	TEST FREQ (MHZ)	Q Min.	SRF (MHz) Min.	RDC (Ω) Max.	IDC (mA) Max.	TOLERANCE ($\pm$ %)	Color Code IST
NL2016I4T-R12 □ -N	0.12	25.2	25	500	0.2	600	5,10	WHT
NL2016I4T-R15 □ -N	0.15	25.2	25	450	0.25	600	5,10	BLK
NL2016I4T-R18 □ -N	0.18	25.2	25	410	0.3	570	5,10	BRN
NL2016I4T-R22 □ -N	0.22	25.2	25	350	0.35	550	5,10	RED
NL2016I4T-R27 □ -N	0.27	25.2	25	280	0.4	530	5,10	ORN
NL2016I4T-R33 □ -N	0.33	25.2	25	235	0.45	510	5,10	YEL
NL2016I4T-R39 □ -N	0.39	25.2	25	210	0.5	490	5,10	GRN
NL2016I4T-R47 □ -N	0.47	25.2	25	170	0.55	470	5,10	BLU
NL2016I4T-R56 □ -N	0.56	25.2	25	150	0.6	450	5,10	VIO
NL2016I4T-R68 □ -N	0.68	25.2	25	140	0.7	420	5,10	GRY
NL2016I4T-R82 □ -N	0.82	25.2	25	130	0.75	400	5,10	WHT
NL2016I4T-IR0 □ -N	1	7.96	15	115	0.8	350	5,10	BLK
NL2016I4T-IR2 □ -N	1.2	7.96	15	95	0.9	325	5,10	BRN
NL2016I4T-IR5 □ -N	1.5	7.96	15	85	1.05	300	5,10	RED
NL2016I4T-IR8 □ -N	1.8	7.96	15	80	1.2	270	5,10	ORN
NL2016I4T-2R2 □ -N	2.2	7.96	15	75	1.4	250	5,10	YEL
NL2016I4T-2R7 □ -N	2.7	7.96	15	70	1.6	230	5,10	GRN
NL2016I4T-3R3 □ -N	3.3	7.96	15	60	1.8	210	5,10	BLU
NL2016I4T-3R9 □ -N	3.9	7.96	15	55	2	190	5,10	VIO
NL2016I4T-4R7 □ -N	4.7	7.96	15	45	2.4	170	5,10	GRY
NL2016I4T-5R6 □ -N	5.6	7.96	15	40	2.7	150	5,10	WHT
NL2016I4T-6R8 □ -N	6.8	7.96	15	36	3.2	140	5,10	BLK
NL2016I4T-8R2 □ -N	8.2	7.96	15	33	3.6	120	5,10	BRN
NL2016I4T-100 □ -N	10	2.52	15	30	4.5	110	5,10	RED
NL2016I4T-120 □ -N	12	2.52	15	25	5.7	105	5,10	ORN
NL2016I4T-150 □ -N	15	2.52	15	23	6.5	90	5,10	YEL
NL2016I4T-180 □ -N	18	2.52	15	21	7	85	5,10	GRN
NL2016I4T-220 □ -N	22	2.52	15	20	8	78	5,10	BLU
NL2016I4T-270 □ -N	27	2.52	15	18	9	75	5,10	VIO
NL2016I4T-330 □ -N	33	2.52	15	17	10	70	5,10	GRY

NOTE: □-tolerance J= $\pm 5\%$ / K= $\pm 10\%$ / M= $\pm 20\%$

1. Operating temperature range -25°C~85°C

2. IDC: Applied the current to coils, the inductance shall be less than 10% initial value.

3. L/Q Test OSC@200mV

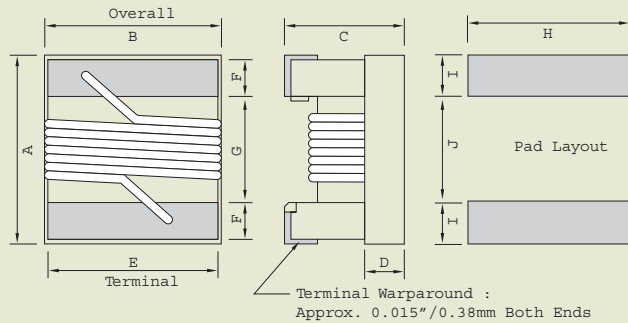
"-N" FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)



SHAPES AND DIMENSIONS NL201614 SERIES

Dimensions : mm

Ferrite body and wire wound construction provide highest current.



UNIT	A	B	C	D	E	F	G	H	I	J
	Max.	Max.	Max.	Ref.						
in	0.09	0.068	0.06	0.02	0.05	0.02	0.04	0.07	0.04	0.03
mm	2.29	1.73	1.52	0.51	1.27	0.51	1.02	1.78	1.02	0.76

ELECTRICAL CHARACTERISTICS

PART NO.	INDUCTANCE (μ H)	TOLERANCE ($\pm$ %)	Q Min.	TEST FREQUENCY (MHz)	SRF (MHz) Min.	DC RESISTANCE (Ω) Max.	RATED CURRENT (mA) Max.	COLOR CODING
NL201614T-R12 □-S	0.12	10/5	25	25.2	500	0.20	600	White
NL201614T-R15 □-S	0.15	10/5	25	25.2	450	0.25	600	Black
NL201614T-R18 □-S	0.18	10/5	25	25.2	410	0.30	570	Brown
NL201614T-R22 □-S	0.22	10/5	25	25.2	350	0.35	550	Red
NL201614T-R27 □-S	0.27	10/5	25	25.2	280	0.40	530	Orange
NL201614T-R33 □-S	0.33	10/5	25	25.2	235	0.45	510	Yellow
NL201614T-R39 □-S	0.39	10/5	25	25.2	210	0.50	490	Green
NL201614T-R47 □-S	0.47	10/5	25	25.2	170	0.55	470	Blue
NL201614T-R56 □-S	0.56	10/5	25	25.2	150	0.60	450	Violet
NL201614T-R68 □-S	0.68	10/5	25	25.2	140	0.70	420	Gray
NL201614T-R82 □-S	0.82	10/5	25	25.2	130	0.75	400	White
NL201614T-IR0 □-S	1.00	10/5	15	7.96	115	0.80	350	Black
NL201614T-IR2 □-S	1.20	10/5	15	7.96	95	0.90	325	Brown
NL201614T-IR5 □-S	1.50	10/5	15	7.96	85	1.05	300	Red
NL201614T-IR8 □-S	1.80	10/5	15	7.96	80	1.20	270	Orange
NL201614T-2R2 □-S	2.20	10/5	15	7.96	75	1.40	250	Yellow
NL201614T-2R7 □-S	2.70	10/5	15	7.96	70	1.60	230	Green
NL201614T-3R3 □-S	3.30	10/5	15	7.96	60	1.80	210	Blue
NL201614T-3R9 □-S	3.90	10/5	15	7.96	55	2.00	190	Violet
NL201614T-4R7 □-S	4.70	10/5	15	7.96	45	2.40	170	Gray
NL201614T-5R6 □-S	5.60	10/5	15	7.96	40	2.70	150	White
NL201614T-6R8 □-S	6.80	10/5	15	7.96	36	3.20	140	Black
NL201614T-8R2 □-S	8.20	10/5	15	7.96	33	3.60	120	Brown
NL201614T-100 □-S	10.0	10/5	15	2.52	30	4.50	110	Red
NL201614T-120 □-S	12.0	10/5	15	2.52	25	5.70	105	Orange
NL201614T-150 □-S	15.0	10/5	15	2.52	23	6.50	90	Yellow
NL201614T-180 □-S	18.0	10/5	15	2.52	21	7.00	85	Green
NL201614T-220 □-S	22.0	10/5	15	2.52	20	8.00	78	Blue
NL201614T-270 □-S	27.0	10/5	15	2.52	18	9.00	75	Violet
NL201614T-330 □-S	33.0	10/5	15	2.52	17	10.0	70	Gray

• When ordering, please specify tolerance and packaging codes. Ex : NL201614T-R12J-S

• Tolerance : J = $\pm 5\%$, K = $\pm 10\%$

• Packaging : Clear Tape and Reel (Standard)

• L/Q : Agilent/HP4291A+ Agilent/HPI6193A

• SRF : Agilent/HP4291A

• RDC : Digital Multimeter SC-7401

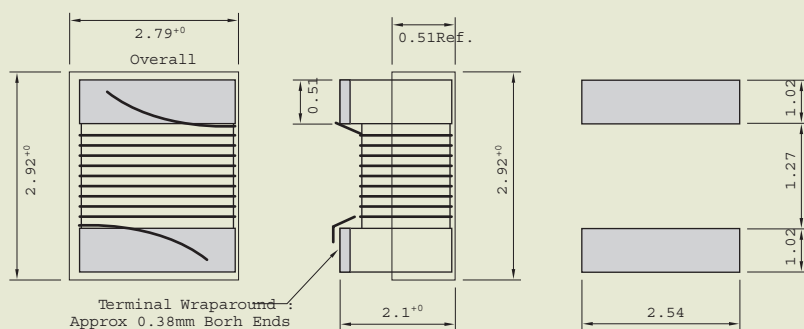
• Idc for inductance drop 10% from its value without current.

• Operating Temperature Range : -25°C to 85°C

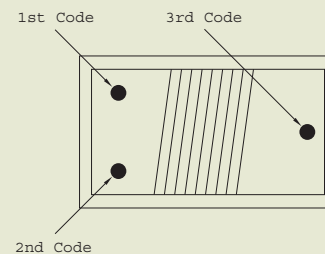


SHAPES AND DIMENSIONS NL252018 SERIES

Dimensions : mm



Color Coding



ELECTRICAL CHARACTERISTICS

PART NO.	INDUCTANCE μH)	TOLERANCE (±%)	Q Min.	TEST FREQUENCY (MHz)	SRF (MHz) Min.	DC RESISTANCE (Ω) Max.	IDC (mA) Max.	COLOR CODING		
								1 st	2 nd	3 rd
NL252018T-5N0 □ -S	0.005	10	10	100	3000	0.25	2000	Black	Green	Black
NL252018T-10N □ -S	0.010	10	10	100	2500	0.25	1800	Brown	Black	Black
NL252018T-12N □ -S	0.012	10	15	100	2400	0.26	1700	Brown	Red	Black
NL252018T-15N □ -S	0.015	10	15	100	2300	0.28	1600	Brown	Green	Black
NL252018T-18N □ -S	0.018	10	15	100	2200	0.30	1550	Brown	Gray	Black
NL252018T-22N □ -S	0.022	5, 10	20	100	2100	0.35	1500	Red	Red	Black
NL252018T-27N □ -S	0.027	5, 10	20	100	2000	0.40	1450	Red	Violet	Black
NL252018T-33N □ -S	0.033	5, 10	30	100	1600	0.42	1400	Orange	Orange	Black
NL252018T-39N □ -S	0.039	5, 10	35	100	1500	0.45	1350	Orange	White	Black
NL252018T-47N □ -S	0.047	5, 10	35	100	1400	0.50	1300	Yellow	Violet	Black
NL252018T-56N □ -S	0.056	5, 10	35	100	1300	0.60	1250	Green	Blue	Black
NL252018T-68N □ -S	0.068	5, 10	35	100	1200	0.65	1240	Blue	Gray	Black
NL252018T-82N □ -S	0.082	5, 10	35	100	1100	0.75	1230	Gray	Red	Black
NL252018T-R10 □ -S	0.10	5, 10	35	100	800	0.80	1220	Brown	Black	Brown
NL252018T-R12 □ -S	0.12	5, 10	30	25.2	700	0.30	900	Brown	Red	Brown
NL252018T-R15 □ -S	0.15	5, 10	30	25.2	550	0.35	900	Brown	Green	Brown
NL252018T-R18 □ -S	0.18	5, 10	30	25.2	500	0.40	850	Brown	Gray	Brown
NL252018T-R22 □ -S	0.22	5, 10	30	25.2	450	0.50	840	Red	Red	Brown
NL252018T-R27 □ -S	0.27	5, 10	30	25.2	425	0.55	830	Red	Violet	Brown
NL252018T-R33 □ -S	0.33	5, 10	30	25.2	400	0.60	820	Orange	Orange	Brown
NL252018T-R39 □ -S	0.39	5, 10	30	25.2	375	0.65	810	Orange	White	Brown
NL252018T-R47 □ -S	0.47	5, 10	30	25.2	350	0.68	800	Yellow	Violet	Brown



ELECTRICAL CHARACTERISTICS

PART NO.	INDUCTANCE (μ H)	TOLERANCE ($\pm$ %)	Q Min.	TEST FREQUENCY (MHz)	SRF (MHz) Min.	DC RESISTANCE (Ω) Max.	IDC (mA) Max.	COLOR CODING		
								1 ST	2 ND	3 RD
NL252018T-R56 □-S	0.560	5, 10	30	25.2	325	0.75	800	Green	Blue	Brown
NL252018T-R68 □-S	0.680	5, 10	30	25.2	300	0.85	800	Blue	Gray	Brown
NL252018T-R82 □-S	0.820	5, 10	30	25.2	260	1.0	800	Gray	Red	Brown
NL252018T-1R0 □-S	1.000	5, 10	25	7.96	245	1.1	800	Brown	Black	Red
NL252018T-1R2 □-S	1.200	5, 10	25	7.96	230	1.2	790	Brown	Red	Red
NL252018T-1R5 □-S	1.500	5, 10	25	7.96	182	1.3	750	Brown	Green	Red
NL252018T-1R8 □-S	1.800	5, 10	25	7.96	135	1.45	750	Brown	Gray	Red
NL252018T-2R2 □-S	2.200	5, 10	25	7.96	105	1.55	750	Red	Red	Red
NL252018T-2R7 □-S	2.700	5, 10	25	7.96	70	1.7	740	Red	Violet	Red
NL252018T-3R3 □-S	3.300	5, 10	25	7.96	55	1.9	730	Orange	Orange	Red
NL252018T-3R9 □-S	3.900	5, 10	25	7.96	48	2.1	700	Orange	White	Red
NL252018T-4R7 □-S	4.7	5, 10	25	7.96	43	2.3	650	Yellow	Violet	Red
NL252018T-5R6 □-S	5.6	5, 10	20	7.96	42	2.5	640	Green	Blue	Red
NL252018T-6R8 □-S	6.8	5, 10	20	7.96	39	2.7	630	Blue	Gray	Red
NL252018T-8R2 □-S	8.2	5, 10	20	7.96	36	3.05	600	Gray	Red	Red
NL252018T-100 □-S	10	5, 10	15	2.52	33	3.5	600	Brown	Black	Orange
NL252018T-120 □-S	12	5, 10	15	2.52	30	3.8	550	Brown	Red	Orange
NL252018T-150 □-S	15	5, 10	15	2.52	26	4.4	430	Brown	Green	Orange
NL252018T-180 □-S	18	5, 10	15	2.52	24	4.8	400	Brown	Gray	Orange
NL252018T-220 □-S	22	5, 10	15	2.52	22	5.5	400	Red	Red	Orange
NL252018T-270 □-S	27	5, 10	15	2.52	21	6.3	360	Red	Violet	Orange
NL252018T-330 □-S	33	5, 10	15	2.52	20	7.1	350	Orange	Orange	Orange
NL252018T-390 □-S	39	5, 10	10	2.52	18	9.5	330	Orange	White	Orange
NL252018T-470 □-S	47	5, 10	10	2.52	17	11.1	300	Yellow	Violet	Orange
NL252018T-560 □-S	56	5, 10	10	2.52	16	12.1	270	Green	Blue	Orange
NL252018T-680 □-S	68	5, 10	10	2.52	15	16.6	250	Blue	Gray	Orange
NL252018T-820 □-S	82	5, 10	10	2.52	13	19	200	Gray	Red	Orange
NL252018T-101 □-S	100	5, 10	8	0.796	12	21	120	Brown	Black	Yellow

* UV Color : Blue / Core Color : Black

When ordering, please specify tolerance and packaging code. Ex : NL252018T-101J-S

Tolerance : □ J = 5% □ K = 10%

Packaging : Clear Tape and Reel (Standard)

L, Q, RDC : HP4287A

SRF : HP8753D / HP4291A RDC : Digital Multimeter SC-7401

Operating Temperature Range : -25°C to +85°C



ELECTRICAL CHARACTERISTICS : LEAD-FREE & ROHS COMPLIANCE

PART NO.	INDUCTANCE (μ H)	TEST FREQ (MHZ)	Q Min.	SRF (MHz) Min.	RDC (Ω) Max.	IDC (mA) Max.	TOLERANCE ($\pm$ %)	Color Code		
								1 ST	2 ND	3 RD
NL252018T-5N0 □ -N	0.005	100	10	3000	0.25	2000	10	BLK	GRN	BLK
NL252018T-10N □ -N	0.01	100	10	2500	0.25	1800	10	BRN	BLK	BLK
NL252018T-12N □ -N	0.012	100	15	2400	0.26	1700	10	BRN	RED	BLK
NL252018T-15N □ -N	0.015	100	15	2300	0.28	1600	10	BRN	GRN	BLK
NL252018T-18N □ -N	0.018	100	15	2200	0.3	1550	10	BRN	GRY	BLK
NL252018T-22N □ -N	0.022	100	20	2100	0.35	1500	5,10	RED	RED	BLK
NL252018T-27N □ -N	0.027	100	20	2000	0.4	1450	5,10	RED	VIO	BLK
NL252018T-33N □ -N	0.033	100	30	1600	0.42	1400	5,10	ORN	ORN	BLK
NL252018T-39N □ -N	0.039	100	35	1500	0.45	1350	5,10	ORN	WHT	BLK
NL252018T-47N □ -N	0.047	100	35	1400	0.5	1300	5,10	YEL	VIO	BLK
NL252018T-56N □ -N	0.056	100	35	1300	0.6	1250	5,10	GRN	BLU	BLK
NL252018T-68N □ -N	0.068	100	35	1200	0.65	1240	5,10	BLU	GRY	BLK
NL252018T-82N □ -N	0.082	100	35	1100	0.75	1230	5,10	GRY	RED	BLK
NL252018T-R10 □ -N	0.1	100	35	800	0.8	1220	5,10	BRN	BLK	BRN
NL252018T-R12 □ -N	0.12	25.2	30	700	0.3	900	5,10	BRN	RED	BRN
NL252018T-R15 □ -N	0.15	25.2	30	550	0.35	900	5,10	BRN	GRN	BRN
NL252018T-R18 □ -N	0.18	25.2	30	500	0.4	850	5,10	BRN	GRY	BRN
NL252018T-R22 □ -N	0.22	25.2	30	450	0.5	840	5,10	RED	RED	BRN
NL252018T-R27 □ -N	0.27	25.2	30	425	0.55	830	5,10	RED	VIO	BRN
NL252018T-R33 □ -N	0.33	25.2	30	400	0.6	820	5,10	ORN	ORN	BRN
NL252018T-R39 □ -N	0.39	25.2	30	375	0.65	810	5,10	ORN	WHT	BRN
NL252018T-R47 □ -N	0.47	25.2	30	350	0.68	800	5,10	YEL	VIO	BRN
NL252018T-R56 □ -N	0.56	25.2	30	325	0.75	800	5,10	GRN	BLU	BRN
NL252018T-R68 □ -N	0.68	25.2	30	300	0.85	800	5,10	BLU	GRY	BRN
NL252018T-R82 □ -N	0.82	25.2	30	260	1	800	5,10	GRY	RED	BRN
NL252018T-1R0 □ -N	1	7.96	25	245	1.1	800	5,10	BRN	BLK	RED
NL252018T-1R2 □ -N	1.2	7.96	25	230	1.2	790	5,10	BRN	RED	RED
NL252018T-1R5 □ -N	1.5	7.96	25	182	1.3	750	5,10	BRN	GRN	RED
NL252018T-1R8 □ -N	1.8	7.96	25	135	1.45	750	5,10	BRN	GRY	RED
NL252018T-2R2 □ -N	2.2	7.96	25	105	1.55	750	5,10	RED	RED	RED
NL252018T-2R7 □ -N	2.7	7.96	25	70	1.7	740	5,10	RED	VIO	RED
NL252018T-3R3 □ -N	3.3	7.96	25	55	1.9	730	5,10	ORN	ORN	RED
NL252018T-3R9 □ -N	3.9	7.96	25	48	2.1	700	5,10	ORN	WHY	RED
NL252018T-4R7 □ -N	4.7	7.96	25	43	2.3	650	5,10	YEL	VIO	RED
NL252018T-5R6 □ -N	5.6	7.96	20	42	2.5	640	5,10	GRN	BLU	RED
NL252018T-6R8 □ -N	6.8	7.96	20	39	2.7	630	5,10	BLU	GRY	RED
NL252018T-8R2 □ -N	8.2	7.96	20	36	3.05	600	5,10	GRY	RED	RED
NL252018T-100 □ -N	10	2.52	15	33	3.5	600	5,10	BRN	BLK	ORN
NL252018T-120 □ -N	12	2.52	15	30	3.8	550	5,10	BRN	RED	ORN
NL252018T-150 □ -N	15	2.52	15	26	4.4	430	5,10	BRN	GRN	ORN
NL252018T-180 □ -N	18	2.52	15	24	4.8	400	5,10	BRN	GRY	ORN
NL252018T-220 □ -N	22	2.52	15	22	5.5	400	5,10	RED	RED	ORN
NL252018T-270 □ -N	27	2.52	15	21	6.3	360	5,10	RED	VIO	ORN
NL252018T-330 □ -N	33	2.52	15	20	7.1	350	5,10	ORN	ORN	ORN
NL252018T-390 □ -N	39	2.52	10	18	9.5	330	5,10	ORN	WHT	ORN
NL252018T-470 □ -N	47	2.52	10	17	11.1	300	5,10	YEL	VIO	ORN
NL252018T-560 □ -N	56	2.52	10	16	12.1	270	5,10	GRN	BLU	ORN
NL252018T-680 □ -N	68	2.52	10	15	16.6	250	5,10	BLU	GRY	ORN
NL252018T-820 □ -N	82	2.52	10	13	19	200	5,10	GRY	RED	ORN
NL252018T-101 □ -N	100	0.796	8	12	21	120	5,10	BRN	BLK	YEL

NOTE: □ -tolerance J= $\pm 5\%$ K= $\pm 10\%$ / M= $\pm 20\%$

1. Operating temperature range -25°C~85°C

2. IDC: Applied the current to coils, the inductance shall be less than 10% initial value.

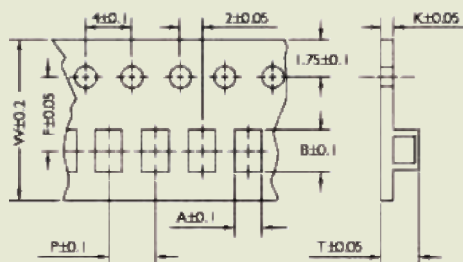
3. L/Q Test OSC@200mV

"-N" FOR COMPLETELY LEAD FREE TYPE(INCLUDING FERRITE BODY & SOLDER)



TAPE DIMENSIONS

Dimensions : mm

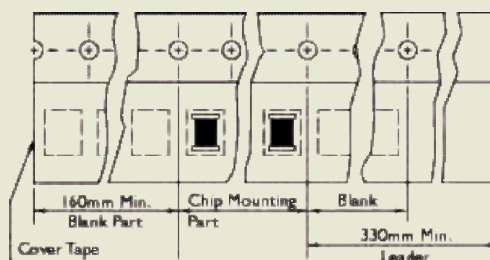


TYPE	A	B	T	W	P	F	K
NL201614	1.85	2.45	0.23	8	4	3.5	1.45
NL252018	2.7	2.95	2.25	8	4	3.5	0.25
NL322522	2.94	3.64	2.52	8	4	3.5	0.2
NL453232	3.64	5.14	3.6	12	8	5.5	0.3
NL565050	4.9	5.65	5.3	16.15	12.2	5.5	0.5

TAPE MATERIAL

Carrier Tape : Polystyrene

Cover Type : Polyethylene



REEL DIMENSIONS

Dimensions : mm

Figure 1

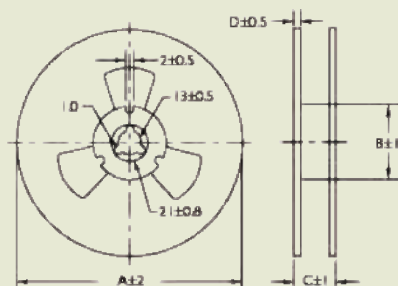
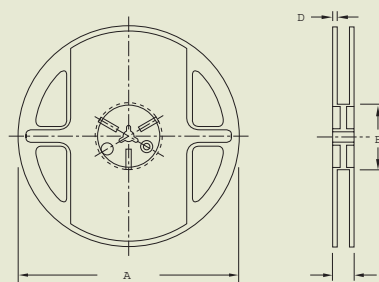


Figure 2

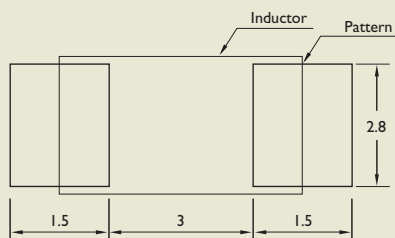


TYPE	FIGURE	A	B	C	D
NL201614	2	178	60	13	9
NL252018	2	178	60	12	1.5
NL322522	1	178	60	10	1.5
NL453232	1	250	80	14	1.5
NL565050	2	330	80	20	2

RECOMMENDED PATTERN

Dimensions : mm

NL45



PACKAGING QUANTITY

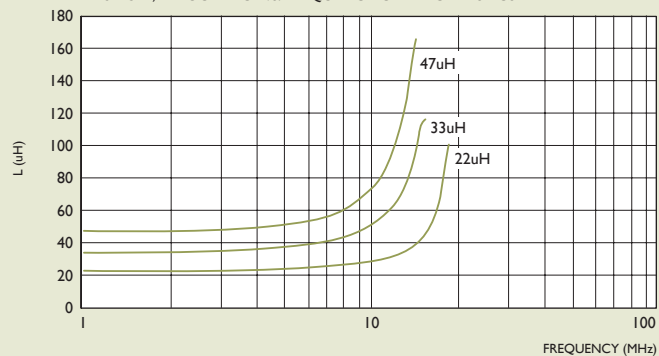
TYPE	BULK	QUANTITY/REEL
NL201614	√	2000
NL252018	√	2000
NL322522	√	2000
NL453232	√	500
NL565050	√	1000



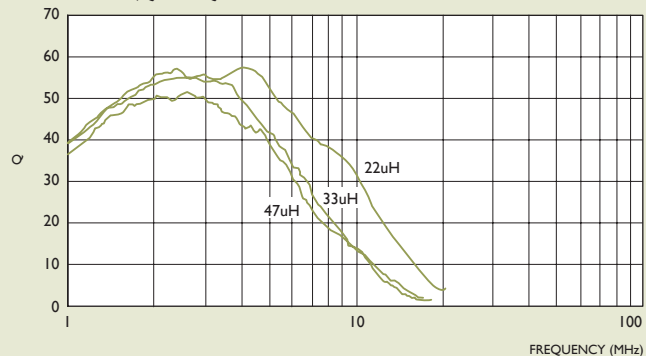
TYPICAL ELECTRICAL CHARACTERISTICS

Test Instruments : HP4291A Impedance / Material Analyzer

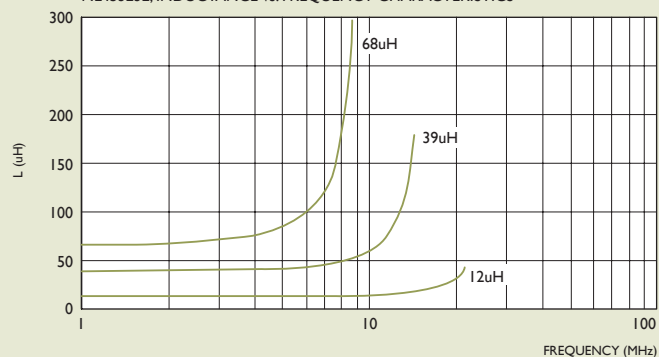
NL322522, INDUCTANCE vs. FREQUENCY CHARACTERISTICS



NL322522, Q vs. FREQUENCY CHARACTERISTICS



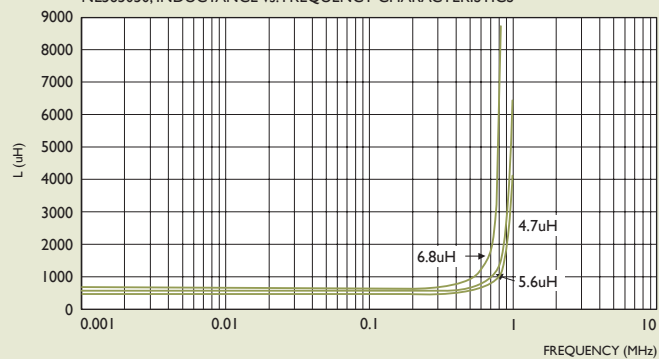
NL453232, INDUCTANCE vs. FREQUENCY CHARACTERISTICS



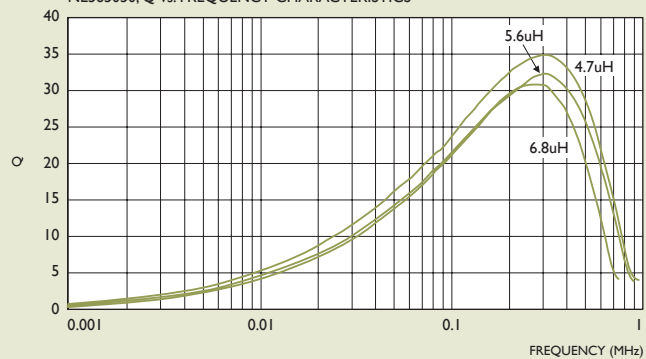
NL453232, Q vs. FREQUENCY CHARACTERISTICS



NL565050, INDUCTANCE vs. FREQUENCY CHARACTERISTICS



NL565050, Q vs. FREQUENCY CHARACTERISTICS





RECOMMEND SOLDERING CONDITIONS

for:CS/ CT/ LCN/ HC/ HQ/ CMM/ NL (open type)/ NLC (open type)/ LS

