

MLK Series: Supports operating frequency bands of up to 12GHz with nominal inductance values from 1 – 100nH. Provides high Q characteristics. Advanced monolithic structure is formed using a lamination and firing process with high-frequency ceramic and conductive materials. Because the part is non-polarized, it can be used in bulk cassette loaders. **Operating Temperature:** -25°C – 85°C

MLF Series - Magnetic Shielded Inductor: TDK's MLF multi-layer chip inductor combines high performance with the most compact design available today. MLF inductor's multi-layer technology utilizes ferrite paste and electric conductor paste layered in a monolithic structure. Sintering of ferrite and electric conductors forms a perfect closed magnetic circuit and a magnetic shield. Magnetic shielding is ideally suited for high density circuit application in disk drives, personal computers, measuring equipment, and telephone equipment. **Operating Temperature:** -25°C – 85°C

GLF Series: Features: • Delivers low Rdc with high Idc • Construction supports bulk mounting **Applications:** Perfect coil for step-up circuits, step-down circuits and decoupling circuits for each set power supply circuit. • Portable audio visual devices • Mobile communication devices • Information devices (GLF1608) • Amusement devices (GLF1608) **Operating Temperature:** -40°C – 105°C

MLG Series: Supports operating frequency bands of up to 10GHz with nominal inductance values from 0.6 – 390nH. Provides high Q characteristics. Advanced monolithic structure is formed using a lamination and firing process with high-frequency ceramic and conductive materials. **Operating Temperature:** (MLG1005S, MLG0603S and MLG0603O) -55°C – 125°C; (MLG1608) -25°C – 85°C

MLZ Series: This is a multi-layered inductor primarily designed for choking power lines. With one of the best resistance performance in the industry, this product delivers a significantly lower DC resistance value compared to our previous products. This reduces the loss at the power supply and contributes to power conservation. **Applications:** Choke coil to use for DVC, DSC, MD, power supply circuit such as various module. **Operating Temperature:** -55°C – 125°C

Inductance (nH)	Tolerance	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (GHz)	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel Pricing 15,000	TDK Part No.
							1	10	100		
Fig. 1 — MLK0603 (0201)											
1.0	±0.3nH	100	0.20	300	12.0	445-1570-1-ND	.18	1.47	11.76	51.00/M	MLK0603L1N0S
1.2	±0.3nH	100	0.22	300	11.0	445-1571-1-ND	.18	1.47	11.76	51.00/M	MLK0603L1N2S
1.5	±0.3nH	100	0.24	300	10.0	445-1572-1-ND	.18	1.47	11.76	51.00/M	MLK0603L1N5S
1.8	±0.3nH	100	0.27	300	10.0	445-1573-1-ND	.18	1.47	11.76	51.00/M	MLK0603L1N8S
2.2	±0.3nH	100	0.30	300	9.0	445-1574-1-ND	.18	1.47	11.76	51.00/M	MLK0603L2N2S
2.7	±0.3nH	100	0.35	300	8.5	445-1575-1-ND	.18	1.47	11.76	51.00/M	MLK0603L2N7S
3.3	±0.3nH	100	0.40	200	8.0	445-1576-1-ND	.18	1.47	11.76	51.00/M	MLK0603L3N3S
3.9	±0.3nH	100	0.45	200	8.0	445-1577-1-ND	.18	1.47	11.76	51.00/M	MLK0603L3N9S
4.7	±0.3nH	100	0.50	200	7.5	445-1578-1-ND	.18	1.47	11.76	51.00/M	MLK0603L4N7S
5.6	±0.3nH	100	0.60	200	6.5	445-1579-1-ND	.18	1.47	11.76	51.00/M	MLK0603L5N6S
6.8	±5%	100	0.65	200	6.0	445-1580-1-ND	.18	1.47	11.76	51.00/M	MLK0603L6N8J
8.2	±5%	100	0.70	200	6.0	445-1581-1-ND	.18	1.47	11.76	51.00/M	MLK0603L8N2J
10	±5%	100	0.80	200	5.5	445-1582-1-ND	.18	1.47	11.76	51.00/M	MLK0603L10N1J
12	±5%	100	1.00	150	5.0	445-1583-1-ND	.18	1.47	11.76	51.00/M	MLK0603L12N1J
15	±5%	100	1.10	150	4.5	445-1584-1-ND	.18	1.47	11.76	51.00/M	MLK0603L15N1J
18	±5%	100	1.30	100	4.0	445-1585-1-ND	.18	1.47	11.76	51.00/M	MLK0603L18N1J
22	±5%	100	1.60	100	3.5	445-1586-1-ND	.18	1.47	11.76	51.00/M	MLK0603L22N1J

Inductance (nH)	Tolerance	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (GHz)	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel Pricing 10,000	TDK Part No.
							1	10	100		
Fig. 2 — MLK1005 (0402)											
1.2	±0.3nH	100	0.12	500	11	445-1456-1-ND	.15	1.22	9.72	42.53/M	MLK1005S1N2S
1.5	±0.3nH	100	0.15	500	9.5	445-1457-1-ND	.15	1.22	9.72	42.53/M	MLK1005S1N5S
1.8	±0.3nH	100	0.17	500	8.5	445-1458-1-ND	.15	1.22	9.72	42.53/M	MLK1005S1N8S
2.2	±0.3nH	100	0.18	500	8	445-1459-1-ND	.15	1.22	9.72	42.53/M	MLK1005S2N2S
2.7	±0.3nH	100	0.20	500	7.5	445-1460-1-ND	.15	1.22	9.72	42.53/M	MLK1005S2N7S
3.3	±0.3nH	100	0.22	500	7	445-1461-1-ND	.15	1.22	9.72	42.53/M	MLK1005S3N3S
3.9	±0.3nH	100	0.25	400	6.5	445-1462-1-ND	.15	1.22	9.72	42.53/M	MLK1005S3N9S
4.7	±0.3nH	100	0.28	400	6	445-1463-1-ND	.15	1.22	9.72	42.53/M	MLK1005S4N7S
5.6	±0.5nH	100	0.30	400	5.7	445-1464-1-ND	.15	1.22	9.72	42.53/M	MLK1005S5N6D
6.8	±0.5nH	100	0.35	400	5.5	445-1465-1-ND	.15	1.22	9.72	42.53/M	MLK1005S6N8D
8.2	±0.5nH	100	0.38	350	5	445-1466-1-ND	.15	1.22	9.72	42.53/M	MLK1005S8N2D
10	±5%	100	0.42	350	4.7	445-1467-1-ND	.15	1.22	9.72	42.53/M	MLK1005S10N1J
12	±5%	100	0.47	350	4.3	445-1468-1-ND	.15	1.22	9.72	42.53/M	MLK1005S12N1J
15	±5%	100	0.50	300	4	445-1469-1-ND	.15	1.22	9.72	42.53/M	MLK1005S15N1J
18	±5%	100	0.60	250	3.7	445-1470-1-ND	.15	1.22	9.72	42.53/M	MLK1005S18N1J
22	±5%	100	0.70	200	3.5	445-1471-1-ND	.15	1.22	9.72	42.53/M	MLK1005S22N1J
27	±5%	100	0.80	200	3	445-1472-1-ND	.15	1.22	9.72	42.53/M	MLK1005S27N1J
33	±5%	100	0.90	200	2.5	445-1473-1-ND	.15	1.22	9.72	42.53/M	MLK1005S33N1J
47	±5%	100	1.20	200	1.8	445-1475-1-ND	.15	1.22	9.72	42.53/M	MLK1005S47N1J
56	±5%	100	1.30	200	1.5	445-1476-1-ND	.15	1.22	9.72	42.53/M	MLK1005S56N1J
68	±5%	100	1.50	150	1.4	445-1477-1-ND	.15	1.22	9.72	42.53/M	MLK1005S68N1J
82	±5%	100	1.80	150	1.3	445-1478-1-ND	.15	1.22	9.72	42.53/M	MLK1005S82N1J
100	±5%	100	2.20	100	1.1	445-1479-1-ND	.15	1.22	9.72	42.53/M	MLK1005S101J

NEW! Fig. 2 — MLF1005 (0402) NEW!

0.1	±10%	25	0.60	25	0.45	445-3502-1-ND	.60	5.00	40.00	175.00/M	MLF1005DR10KT
0.12	±10%	25	0.70	25	0.40	445-3503-1-ND	.60	5.00	40.00	175.00/M	MLF1005DR12KT
0.15	±10%	25	0.80	25	0.35	445-3504-1-ND	.60	5.00	40.00	175.00/M	MLF1005DR15KT
0.18	±10%	25	0.90	25	0.32	445-3505-1-ND	.60	5.00	40.00	175.00/M	MLF1005DR18KT
0.22	±10%	25	1.10	25	0.29	445-3506-1-ND	.60	5.00	40.00	175.00/M	MLF1005DR22KT
0.27	±10%	25	1.30	25	0.26	445-3507-1-ND	.60	5.00	40.00	175.00/M	MLF1005DR27KT
0.33	±10%	25	1.50	25	0.23	445-3508-1-ND	.60	5.00	40.00	175.00/M	MLF1005DR33KT
0.39	±10%	10	0.60	10	0.21	445-3509-1-ND	.60	5.00	40.00	175.00/M	MLF1005AR39KT
0.47	±10%	10	0.65	10	0.19	445-3510-1-ND	.60	5.00	40.00	175.00/M	MLF1005AR47KT
0.56	±10%	10	0.70	10	0.17	445-3511-1-ND	.60	5.00	40.00	175.00/M	MLF1005AR56KT
0.68	±10%	10	0.80	10	0.15	445-3512-1-ND	.60	5.00	40.00	175.00/M	MLF1005AR68KT
0.82	±10%	10	0.90	10	0.13	445-3513-1-ND	.60	5.00	40.00	175.00/M	MLF1005AR82KT
1.0	±10%	10	1.00	10	0.12	445-3514-1-ND	.60	5.00	40.00	175.00/M	MLF1005A1R0KT
1.2	±10%	10	1.10	10	0.11	445-3515-1-ND	.60	5.00	40.00	175.00/M	MLF1005A1R2KT
1.5	±10%	10	1.30	10	0.10	445-3516-1-ND	.60	5.00	40.00	175.00/M	MLF1005A1R5KT
1.8	±10%	10	1.55	10	0.09	445-3517-1-ND	.60	5.00	40.00	175.00/M	MLF1005A1R8KT
2.2	±10%	10	1.80	10	0.08	445-3518-1-ND	.60	5.00	40.00	175.00/M	MLF1005A2R2KT

Inductance (μH)	Tolerance	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel Pricing 4,000	TDK Part No.
							1	10	100		
Fig. 4 — MLF1608 (0603)											
0.047	±20%	50	0.20	200	600	445-1000-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR47NM
0.068	±20%	50	0.30	200	550	445-1001-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR68NM
0.082	±20%	50	0.30	200	500	445-1002-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR82NM
0.1	±10%	25	0.35	200	450	445-1003-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR10K
0.12	±10%	25	0.40	200	400	445-1004-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR12K
0.15	±10%	25	0.45	200	350	445-1005-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR15K
0.18	±10%	25	0.50	150	320	445-1006-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR18K
0.22	±10%	25	0.55	150	290	445-1007-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR22K
0.27	±10%	25	0.60	150	260	445-1008-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR27K
0.33	±10%	25	0.75	100	230	445-1009-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR33K
0.39	±10%	25	0.85	100	210	445-1010-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR39K
0.47	±10%	25	0.95	100	190	445-1011-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR47K
0.56	±10%	25	1.05	100	170	445-1012-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR56K
0.68	±10%	25	1.25	70	150	445-1013-1-ND	.41	3.45	27.56	120.58/M	MLF1608DR68K
1.2	±10%	10	0.65	50	110	445-1014-1-ND	.41	3.40	27.20	119.00/M	MLF1608A1R2K
1.5	±10%	10	0.70	50	100	445-1015-1-ND	.41	3.40	27.20	119.00/M	MLF1608A1R5K
1.8	±10%	10	0.85	50	90	445-1016-1-ND	.41	3.40	27.20	119.00/M	MLF1608A1R8K
2.2	±10%	10	1.00	30	80	445-1017-1-ND	.41				

Inductance (µH)	Inductance Tolerance	DC Res. (Ω)	Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Pricing		TDK Part No.
					1	10	100	Qty.	Pricing	
Fig. 3 — GLF2012 (0603)										
1.0	±20%	0.17	125	445-3151-1-ND	.22	1.92	16.80	4,000	84.00/M	GLF1608T1R0M
2.2	±20%	0.33	75	445-3152-1-ND	.22	1.92	16.80	4,000	84.00/M	GLF1608T2R2M
4.7	±20%	0.55	70	445-3153-1-ND	.22	1.92	16.80	4,000	84.00/M	GLF1608T4R7M
10.0	±20%	0.70	50	445-3154-1-ND	.22	1.92	16.80	4,000	84.00/M	GLF1608T100M
22.0	±20%	3.00	35	445-3155-1-ND	.22	1.92	16.80	4,000	84.00/M	GLF1608T220M
Fig. 3 — GLF2012 (0805)										
1.0	±20%	0.07	400	445-3156-1-ND	.22	1.92	16.80	2,000	84.00/M	GLF2012T1R0M
2.2	±20%	0.10	300	445-3157-1-ND	.22	1.92	16.80	2,000	84.00/M	GLF2012T2R2M
4.7	±20%	0.24	200	445-3158-1-ND	.22	1.92	16.80	2,000	84.00/M	GLF2012T4R7M
10.0	±10%	0.36	140	445-3159-1-ND	.22	1.92	16.80	2,000	84.00/M	GLF2012T100K
22.0	±10%	1.00	100	445-3160-1-ND	.22	1.92	16.80	2,000	84.00/M	GLF2012T220K
47.0	±10%	1.70	75	445-3161-1-ND	.22	1.92	16.80	2,000	84.00/M	GLF2012T470K
100.0	±10%	4.00	50	445-3162-1-ND	.22	1.92	16.80	2,000	84.00/M	GLF2012T101K

Inductance (nH)	Inductance Tolerance	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (GHz)	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel Pricing		TDK Part No.
							1	10	100	4,000	Pricing	
Fig. 3 — MLG1608 (0603)												
1.0	±0.3nH	100	0.10	600	10.0	445-1480-1-ND	.16	1.34	10.68	46.73/M	MLG1608B1N0S	
1.2	±0.3nH	100	0.10	600	10.0	445-1481-1-ND	.16	1.34	10.68	46.73/M	MLG1608B1N2S	
1.5	±0.3nH	100	0.10	600	10.0	445-1482-1-ND	.16	1.34	10.68	46.73/M	MLG1608B1N5S	
1.8	±0.3nH	100	0.10	600	10.0	445-1483-1-ND	.16	1.34	10.68	46.73/M	MLG1608B1N8S	
2.2	±0.3nH	100	0.10	600	8.0	445-1484-1-ND	.16	1.34	10.68	46.73/M	MLG1608B2N2S	
2.7	±0.3nH	100	0.12	600	7.0	445-1485-1-ND	.16	1.34	10.68	46.73/M	MLG1608B2N7S	
3.3	±0.3nH	100	0.12	600	6.5	445-1486-1-ND	.16	1.34	10.68	46.73/M	MLG1608B3N3S	
3.9	±0.3nH	100	0.14	600	6.0	445-1487-1-ND	.16	1.34	10.68	46.73/M	MLG1608B3N9S	
4.7	±0.3nH	100	0.15	600	5.0	445-1488-1-ND	.16	1.34	10.68	46.73/M	MLG1608B4N7S	
5.6	±0.5nH	100	0.16	600	5.0	445-1489-1-ND	.16	1.34	10.68	46.73/M	MLG1608B5N6D	
6.8	±0.5nH	100	0.18	600	4.5	445-1490-1-ND	.16	1.34	10.68	46.73/M	MLG1608B6N8D	
8.2	±0.5nH	100	0.20	600	4.5	445-1491-1-ND	.16	1.34	10.68	46.73/M	MLG1608B8N2D	
10	±5%	100	0.20	600	3.5	445-1492-1-ND	.16	1.34	10.68	46.73/M	MLG1608B10NJ	
12	±5%	100	0.25	600	3.0	445-1493-1-ND	.16	1.34	10.68	46.73/M	MLG1608B12NJ	
15	±5%	100	0.28	600	2.8	445-1494-1-ND	.16	1.34	10.68	46.73/M	MLG1608B15NJ	
18	±5%	100	0.32	600	2.6	445-1495-1-ND	.16	1.34	10.68	46.73/M	MLG1608B18NJ	
22	±5%	100	0.35	500	2.3	445-1496-1-ND	.16	1.34	10.68	46.73/M	MLG1608B21NJ	
27	±5%	100	0.40	500	2.0	445-1497-1-ND	.16	1.34	10.68	46.73/M	MLG1608B27NJ	
33	±5%	100	0.50	500	1.8	445-1498-1-ND	.16	1.34	10.68	46.73/M	MLG1608B33NJ	
39	±5%	100	0.55	400	1.6	445-1499-1-ND	.16	1.34	10.68	46.73/M	MLG1608B39NJ	
47	±5%	100	0.60	400	1.4	445-1500-1-ND	.16	1.34	10.68	46.73/M	MLG1608B47NJ	
56	±5%	100	0.70	400	1.2	445-1501-1-ND	.16	1.34	10.68	46.73/M	MLG1608B56NJ	
68	±5%	100	0.75	300	1.1	445-1502-1-ND	.16	1.34	10.68	46.73/M	MLG1608B68NJ	
82	±5%	100	0.80	300	1.0	445-1503-1-ND	.16	1.34	10.68	46.73/M	MLG1608B82NJ	
100	±5%	100	1.00	300	0.80	445-1504-1-ND	.16	1.34	10.68	46.73/M	MLG1608B101J	

Inductance (nH)	Inductance Tolerance	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (GHz)	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel Pricing		TDK Part No.
							1	10	100	4,000	Pricing	
Fig. 3 — MLG1005 (0402)												
0.6	±0.2nH	100	0.1	1000	10	445-3031-1-ND	.11	1.00	8.75	38.00/M	MLG1005S0N6C	
0.7	±0.2nH	100	0.1	1000	10	445-3032-1-ND	.11	1.00	8.75	38.00/M	MLG1005S0N7C	
0.8	±0.2nH	100	0.1	1000	10	445-3033-1-ND	.11	1.00	8.75	38.00/M	MLG1005S0N8C	
0.9	±0.2nH	100	0.1	1000	10	445-3034-1-ND	.11	1.00	8.75	38.00/M	MLG1005S0N9C	
1.0	±0.3nH	100	0.1	1000	10	445-3035-1-ND	.11	1.00	8.75	38.00/M	MLG1005S1N0S	
1.1	±0.3nH	100	0.1	1000	10	445-3036-1-ND	.11	1.00	8.75	38.00/M	MLG1005S1N1S	
1.2	±0.3nH	100	0.1	1000	10	445-3037-1-ND	.11	1.00	8.75	38.00/M	MLG1005S1N2S	
1.3	±0.3nH	100	0.1	1000	8	445-3038-1-ND	.11	1.00	8.75	38.00/M	MLG1005S1N3S	
1.5	±0.3nH	100	0.1	1000	8	445-3039-1-ND	.11	1.00	8.75	38.00/M	MLG1005S1N5S	
1.6	±0.3nH	100	0.15	1000	7	445-3040-1-ND	.11	1.00	8.75	38.00/M	MLG1005S1N6S	
1.8	±0.3nH	100	0.15	900	8	445-3041-1-ND	.11	1.00	8.75	38.00/M	MLG1005S1N8S	
2.0	±0.3nH	100	0.15	900	7	445-3042-1-ND	.11	1.00	8.75	38.00/M	MLG1005S2N0S	
2.2	±0.3nH	100	0.15	900	6	445-3043-1-ND	.11	1.00	8.75	38.00/M	MLG1005S2N2S	
2.4	±0.3nH	100	0.15	800	6	445-3044-1-ND	.11	1.00	8.75	38.00/M	MLG1005S2N4S	
2.7	±0.3nH	100	0.15	800	5	445-3045-1-ND	.11	1.00	8.75	38.00/M	MLG1005S2N7S	
3.0	±0.3nH	100	0.2	800	5	445-3046-1-ND	.11	1.00	8.75	38.00/M	MLG1005S3N0S	
3.3	±0.3nH	100	0.2	800	5	445-3047-1-ND	.11	1.00	8.75	38.00/M	MLG1005S3N3S	
3.6	±0.3nH	100	0.2	700	5	445-3048-1-ND	.11	1.00	8.75	38.00/M	MLG1005S3N6S	
3.9	±0.3nH	100	0.2	700	5	445-3049-1-ND	.11	1.00	8.75	38.00/M	MLG1005S3N9S	
4.3	±0.3nH	100	0.2	700	4	445-3050-1-ND	.11	1.00	8.75	38.00/M	MLG1005S4N3S	
4.7	±0.3nH	100	0.25	700	4	445-3051-1-ND	.11	1.00	8.75	38.00/M	MLG1005S4N7S	
5.1	±0.3nH	100	0.25	600	3.5	445-3052-1-ND	.11	1.00	8.75	38.00/M	MLG1005S5N1S	
5.6	±0.3nH	100	0.25	600	3.5	445-3053-1-ND	.11	1.00	8.75	38.00/M	MLG1005S5N6S	
6.2	±0.3nH	100	0.3	600	3	445-3054-1-ND	.11	1.00	8.75	38.00/M	MLG1005S6N2S	
6.8	±0.5nH	100	0.3	600	3	445-3055-1-ND	.11	1.00	8.75	38.00/M	MLG1005S6N8J	
7.5	±5%	100	0.3	500	3	445-3056-1-ND	.11	1.00	8.75	38.00/M	MLG1005S7N5J	
8.2	±5%	100	0.35	500	3	445-3057-1-ND	.11	1.00	8.75	38.00/M	MLG1005S8N2J	
9.1	±5%	100	0.35	500	2.5	445-3058-1-ND	.11	1.00	8.75	38.00/M	MLG1005S9N1J	
10	±5%	100	0.4	500	2.5	445-3059-1-ND	.11	1.00	8.75	38.00/M	MLG1005S10NJ	
12	±5%	100	0.45	400	2	445-3060-1-ND	.11	1.00	8.75	38.00/M	MLG1005S12NJ	
15	±5%	100	0.6	400	1.8	445-3061-1-ND	.11	1.00	8.75	38.00/M	MLG1005S15NJ	
18	±5%	100	0.7	350	1.5	445-3062-1-ND	.11	1.00	8.75	38.00/M	MLG1005S18NJ	
22	±5%	100	0.8	350	1.3	445-3063-1-ND	.11	1.00	8.75	38.00/M	MLG1005S22NJ	
27	±5%	100	0.9	300	1.2	445-3064-1-ND	.11	1.00	8.75	38.00/M	MLG1005S27NJ	
33	±5%	100	1	300	1	445-3065-1-ND	.11	1.00	8.75	38.00/M	MLG1005S33NJ	
39	±5%	100	1.2	250	1	445-3066-1-ND	.11	1.00	8.75	38.00/M	MLG1005S39NJ	
47	±5%	100	1.4	250	0.7	445-3067-1-ND	.11	1.00	8.75	38.00/M	MLG1005S47NJ	
56	±5%	100	1.4	200	0.7	445-3068-1-ND	.11	1.00	8.75	38.00/M	MLG1005S56NJ	
68	±5%	100	1.5	200	0.6	445-3069-1-ND	.11	1.00	8.75	38.00/M	MLG1005S68NJ	
82	±5%	100	1.6	200	0.5	445-3070-1-ND	.11	1.00	8.75	38.00/M	MLG1005S82NJ	
100	±5%	100	2	200	0.5	445-3071-1-ND	.11	1.00	8.75	38.00/M	MLG1005S101J	
120	±5%	100	2.2	150	0.5	445-3072-1-ND	.11	1.00	8.75	38.00/M	MLG1005S121J	
150	±5%	100	3.5	150	0.45	445-3073-1-ND	.11	1.00	8.75	38.00/M	MLG1005S151J	
180	±5%	100	3.8	150	0.4	445-3074-1-ND	.11	1.00	8.75	38.00/M	MLG1005S181J	
220	±5%	100	4.2	100	0.35	445-3075-1-ND	.11	1.00	8.75	38.00/M	MLG1005S221J	
270	±5%	100	4.8	100	0.3	445-3076-1-ND	.11	1.00	8.75	38.00/M	MLG1005S271J	
330	±5%	50	7	50	0.28	445-3077-1-ND	.11	1.00	8.			

NLFC, NLV, NLCV, NLFV and NLC Series

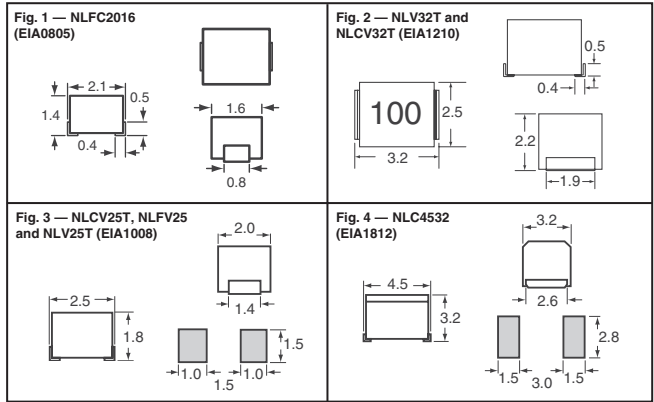
NLFC Series: This product has good heat durability that withstands lead-free compatible reflow soldering conditions. Lead-free materials are used for the plating on the terminal. The NLFC series features magnetic shielding and is recommended for power supply line applications. DCR: ±30% **Operating Temperature:** -40°C ~ 85°C (-40°F ~ 185°F)

NLV Series: This product supports lead-free solder reflow condition. Lead-free materials are used to terminal plating. This product uses metal terminal, therefore it is high connection reliability. They are wire wound. **Operating Temperature:** -40°C ~ 85°C (-40°F ~ 185°F)

NLCV Series: Lead-free materials are used to terminal plating in this product. **Applications:** • Universal inductance circuit use • AV components • Car electronics • IT equipment This series is a large current type: 1.0 to 33 µH (NLCV32: 1.0 to 330 µH) DCR: ±30% **Operating Temperature:** -40°C ~ 85°C (-40°F ~ 185°F)

NLFV Series: Provides low DC resistance while using 252018 size winding construction. **Applications:** • PCs • Hard disk drives • Other types of electronics DCR: ±20% **Operating Temperature:** -20°C ~ 85°C (-4°F ~ 185°F)

NLC4532 Series: Designed to be used on power lines and support rated current in the range from 90 to 150mA. NLC Series has only half as much DC resistance and twice as much DC current. **Operating Temperature:** -40°C ~ 105°C (-40°F ~ 221°F)



Inductance (µH)	Inductance Tol.	Test Freq. (MHz)	DC Res. (Ω)	Rated Current Max. (mA)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel Pricing 2,000	TDK Part No.
							1	10	100		
0.047		100	0.5	360	1200	445-1709-1-ND	.27	.23	.18	77.70/M	NLV25T-047J-PF
0.068		100	0.65	320	1050	445-1711-1-ND	.27	.23	.18	77.70/M	NLV25T-068J-PF
0.082	±5%	100	0.75	300	900	445-1712-1-ND	.27	.23	.18	77.70/M	NLV25T-082J-PF
0.1		100	0.8	280	800	445-1713-1-ND	.27	.23	.18	77.70/M	NLV25T-R10J-PF
0.12		25.2	0.3	550	700	445-1714-1-ND	.27	.23	.18	77.70/M	NLV25T-R12J-PF
0.15		25.2	0.35	500	550	445-1715-1-ND	.27	.23	.18	77.70/M	NLV25T-R15J-PF
0.18		25.2	0.4	460	500	445-1716-1-ND	.27	.23	.18	77.70/M	NLV25T-R18J-PF
0.22	±5%	25.2	0.5	430	450	445-1717-1-ND	.27	.23	.18	77.70/M	NLV25T-R22J-PF
0.27		25.2	0.55	420	425	445-1718-1-ND	.27	.23	.18	77.70/M	NLV25T-R27J-PF
0.33		25.2	0.6	400	400	445-1719-1-ND	.27	.23	.18	77.70/M	NLV25T-R33J-PF
0.39		25.2	0.65	375	375	445-1720-1-ND	.27	.23	.18	77.70/M	NLV25T-R39J-PF
0.47		25.2	0.68	350	350	445-1721-1-ND	.27	.23	.18	77.70/M	NLV25T-R47J-PF
0.56	±5%	25.2	0.75	325	325	445-1722-1-ND	.27	.23	.18	77.70/M	NLV25T-R56J-PF
0.68		25.2	0.85	300	300	445-1723-1-ND	.27	.23	.18	77.70/M	NLV25T-R68J-PF
0.82		25.2	1	260	260	445-1724-1-ND	.27	.23	.18	77.70/M	NLV25T-R82J-PF
1.0		7.96	1.1	245	245	445-1725-1-ND	.27	.23	.18	77.70/M	NLV25T-1R0J-PF
1.2		7.96	1.2	230	230	445-1726-1-ND	.27	.23	.18	77.70/M	NLV25T-1R2J-PF
1.5	±5%	7.96	1.3	220	182	445-1727-1-ND	.27	.23	.18	77.70/M	NLV25T-1R5J-PF
1.8		7.96	1.45	210	135	445-1728-1-ND	.27	.23	.18	77.70/M	NLV25T-1R8J-PF
2.2		7.96	1.55	200	105	445-1729-1-ND	.27	.23	.18	77.70/M	NLV25T-2R2J-PF
2.7		7.96	1.7	195	70	445-1730-1-ND	.27	.23	.18	77.70/M	NLV25T-2R7J-PF
3.3		7.96	1.9	185	55	445-1731-1-ND	.27	.23	.18	77.70/M	NLV25T-3R3J-PF
3.9	±5%	7.96	2.1	180	48	445-1732-1-ND	.27	.23	.18	77.70/M	NLV25T-3R9J-PF
4.7		7.96	2.3	175	43	445-1733-1-ND	.27	.23	.18	77.70/M	NLV25T-4R7J-PF
5.6		7.96	2.5	170	42	445-1734-1-ND	.27	.23	.18	77.70/M	NLV25T-5R6J-PF
6.8		7.96	2.7	165	39	445-1735-1-ND	.27	.23	.18	77.70/M	NLV25T-6R8J-PF
8.2		7.96	3.05	160	36	445-1736-1-ND	.27	.23	.18	77.70/M	NLV25T-8R2J-PF
10	±5%	2.52	3.5	155	33	445-1737-1-ND	.27	.23	.18	77.70/M	NLV25T-10J-PF
12		2.52	3.8	150	30	445-1738-1-ND	.27	.23	.18	77.70/M	NLV25T-120J-PF
15		2.52	4.4	140	26	445-1739-1-ND	.27	.23	.18	77.70/M	NLV25T-150J-PF
18		2.52	4.8	130	24	445-1740-1-ND	.27	.23	.18	77.70/M	NLV25T-180J-PF
22	±5%	2.52	5.5	125	22	445-1741-1-ND	.27	.23	.18	77.70/M	NLV25T-220J-PF
27		2.52	6.3	115	21	445-1742-1-ND	.27	.23	.18	77.70/M	NLV25T-270J-PF
33		2.52	7.1	110	20	445-1743-1-ND	.27	.23	.18	77.70/M	NLV25T-330J-PF
39		2.52	9.5	90	18	445-1744-1-ND	.27	.23	.18	77.70/M	NLV25T-390J-PF
47		2.52	11.1	80	17	445-1745-1-ND	.27	.23	.18	77.70/M	NLV25T-470J-PF
56	±5%	2.52	12.1	75	16	445-1746-1-ND	.27	.23	.18	77.70/M	NLV25T-560J-PF
68		2.52	16.6	70	15	445-1747-1-ND	.27	.23	.18	77.70/M	NLV25T-680J-PF
82		2.52	19	66	13	445-1748-1-ND	.27	.23	.18	77.70/M	NLV25T-820J-PF
100		0.796	21	60	12	445-1749-1-ND	.27	.23	.18	77.70/M	NLV25T-101J-PF

Inductance (µH)	Inductance Tol.	Test Freq. (MHz)	DC Res. (Ω)	Rated Current Max. (mA)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel Pricing 2,000	TDK Part No.
							1	10	100		
1.0		7.96	0.34	475	200	445-1752-1-ND	.27	.23	.18	77.70/M	NLCV25T-1R0M-PF
1.5		7.96	0.42	435	165	445-1753-1-ND	.27	.23	.18	77.70/M	NLCV25T-1R5M-PF
2.2	±20%	7.96	0.5	390	95	445-1754-1-ND	.27	.23	.18	77.70/M	NLCV25T-2R2M-PF
3.3		7.96	0.65	340	55	445-1755-1-ND	.27	.23	.18	77.70/M	NLCV25T-3R3M-PF
4.7		7.96	0.8	285	43	445-1756-1-ND	.27	.23	.18	77.70/M	NLCV25T-4R7M-PF
6.8		7.96	1	275	39	445-1757-1-ND	.27	.23	.18	77.70/M	NLCV25T-6R8M-PF
10		2.52	1.69	210	32	445-1750-1-ND	.27	.23	.18	77.70/M	NLCV25T-100K-PF
15	±10%	2.52	2.2	175	21	445-1751-1-ND	.27	.23	.18	77.70/M	NLCV25T-150K-PF
22		2.52	2.8	160	18	445-1758-1-ND	.27	.23	.18	77.70/M	NLCV25T-220K-PF
33		2.52	4.2	120	16	445-1759-1-ND	.27	.23	.18	77.70/M	NLCV25T-330K-PF

Inductance (µH)	Inductance Tol.	Test Freq. (MHz)	DC Res. (Ω)	Rated Current Max. (mA)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel Pricing 500	TDK Part No.
							1	10	100		
1.0		7.96	0.07	455	100	445-1904-1-ND	.64	.60	.50	178.20/M	NLV25T-1R0M-PF
1.5		7.96	0.09	350	80	445-1905-1-ND	.64	.60	.50	178.20/M	NLV25T-1R5M-PF
2.2	±20%	7.96	0.1	315	70	445-1907-1-ND	.64	.60	.50	178.20/M	NLV25T-2R2M-PF
3.3		7.96	0.2	280	55	445-1909-1-ND	.64	.60	.50	178.20/M	NLV25T-3R3M-PF
4.7		7.96	0.24	210	45	445-1911-1-ND	.64	.60	.50	178.20/M	NLV25T-4R7M-PF
6.8		7.96	0.29	175	38	445-1913-1-ND	.64	.60	.50	178.20/M	NLV25T-6R8M-PF
10		2.52	0.36	155	32	445-1901-1-ND	.64	.60	.50	178.20/M	NLV25T-100K-PF
15		2.52	0.78	130	28	445-1903-1-ND	.64	.60	.50	178.20/M	NLV25T-150K-PF
22	±10%	2.52	1.0	105	16	445-1906-1-ND	.64	.60	.50	178.20/M	NLV25T-220K-PF
33		2.52	1.4	85	14	445-1908-1-ND	.64	.60	.50	178.20/M	NLV25T-330K-PF
47		2.52	1.7	60	11	445-1910-1-ND	.64	.60	.50	178.20/M	NLV25T-470K-PF
68		2.52	3.3	50	10	445-1912-1-ND	.64	.60	.50	178.20/M	NLV25T-680K-PF
100		0.796	4.0	40	8	445-1902-1-ND	.64	.60	.50	178.20/M	NLV25T-101K-PF

Inductance (µH)	Inductance Tol.	Test Freq. (MHz)	DC Res. (Ω)	Rated Current Max. (mA)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel Pricing 500	TDK Part No.
							1	10	100		
1.0		7.96	0.11	1050	200	445-1944-1-ND	.59	.49	.40	85.75	NLC453232T-1R0K-PF
1.2		7.96	0.12	1000	160	445-1945-1-ND	.59	.49	.40	85.75	NLC453232T-1R2K-PF
1.5	±10%	7.96	0.15	950	130	445-1946-1-ND	.59	.49	.40	85.75	NLC453232T-1R5K-PF
1.8		7.96	0.16	900	100	445-1947-1-ND	.59	.49	.40	85.75	NLC453232T-1R8K-PF
2.2		7.96	0.18	850	80	445-1948-1-ND	.59	.49	.40	85.75	NLC453232T-2R2K-PF
2.7		7.96	0.2	800	60	445-1949-1-ND	.59	.49	.40	85.75	NLC453232T-2R7K-PF
3.3		7.96	0.22	750	45	445-1950-1-ND	.59	.49	.40	85.75	NLC453232T-3R3K-PF
3.9	±10%	7.96	0.24	700	40	445-1951-1-ND	.59	.49	.40	85.75	NLC453232T-3R9K-PF
4.7		7.96	0.27	650	35	445-1952-1-ND	.59	.49	.40	85.75	NLC453232T-4R7K-PF
5.6		7.96	0.3	650	30	445-1953-1-ND	.59	.49	.40	85.75	NLC453232T-5R6K-PF
6.8		7.96	0.35	600	28	445-1954-1-ND	.59	.49	.40	85.75	NLC453232T-6R8K-PF
8.2		7.96	0.4	600	25	445-1955-1-ND	.59	.49	.40	85.75	NLC453232T-8R2K-PF
10	±10%	2.52	0.5	550	22	445-1956-1-ND	.59	.49	.40	85.75	NLC453232T-100K-PF
12		2.52	0.6	500	21	445-1957-1-ND	.59	.49	.40	85.75	NLC453232T-120K-PF
15		2.52	0.7	450	20	445-1958-1-ND	.59	.49	.40	85.75	NLC453232T-150K-PF
18		2.52	0.8	400	19	445-1959-1-ND	.59	.49	.40	85.75	NLC453232T-180K-PF
22	±10%	2.52	0.9	370	18	445-1960-1-ND	.59	.49	.40	85.75	NLC453232T-220K-PF
27		2.52	1.2	330	16	445-1961-1-ND	.59	.49	.40	85.75	NLC453232T-270K-PF
33		2.52	1.4	300	14	445-1962-1-ND	.59	.49	.40	85.75	NLC453232T-330K-PF
39		2.52	1.6	280	12	445-1963-1-ND	.59	.49	.40	85.75	NLC453232T-390K-PF
47		2.52	1.9	260	11.5	445-1964-1-ND	.59	.49	.40	85.75	NLC453232T-470K-PF
56		2.52	2.2	240	11	445-1965-1-ND	.59	.49	.40	85.75	NLC453232T-560K-PF
68	±10%	2.52	2.6	220	10	445-1966-1-ND	.59	.49	.40	85.75	NLC453232T-680K-PF
82		2.52	3.5	200	9	445-1967-1-ND	.59	.49	.40	85.75	NLC453232T-820K-PF
100		0.796	4	180	8	445-1968-1-ND	.59	.49	.40	85.75	NLC453232T-101K-PF
120		0.796	4.5	160	7.5	445-1969-1-ND	.59	.49	.40	85.75	NLC453232T-121K-PF
150		0.796	6.5	140	7	445-1970-1-ND	.59	.49	.40	85.75	NLC453232T-151K-PF
180	±10%	0.796	7.5								

VLP Series:

This is a SMD power inductor for power supplies that has an open magnetic path construction based on a low-height drum core (upright). User terminals are contact-formed on the bottom of the drum core using copper (finished with tin plating). It uses crosswise windings and supports large currents.

SLF Series:

SLF series large current lead less inductors have been developed for SMD of power circuits. High performance ferrite core material and low-profile design, ensure superior characteristics and high reliability. **Features:** • Low-profile SMD type • Magnetic shielded type suitable for high density mounting • Provided with embossed carrier tape packaging for automatic mounting machines • Only reflow soldering is applicable **Characteristics:** Sizes SLF6028, SLF7032, and SLF7045: Operating temperature is -20°C ~ 85°C; Size SLF10145: Operating temperature is -20°C ~ 90°C

RLF Series:

This series of inductors is designed for power circuits that require a low profile, low inductance and large current such as those used in notebook PCs. **Features:** With the height at only 4.5mm and retaining the

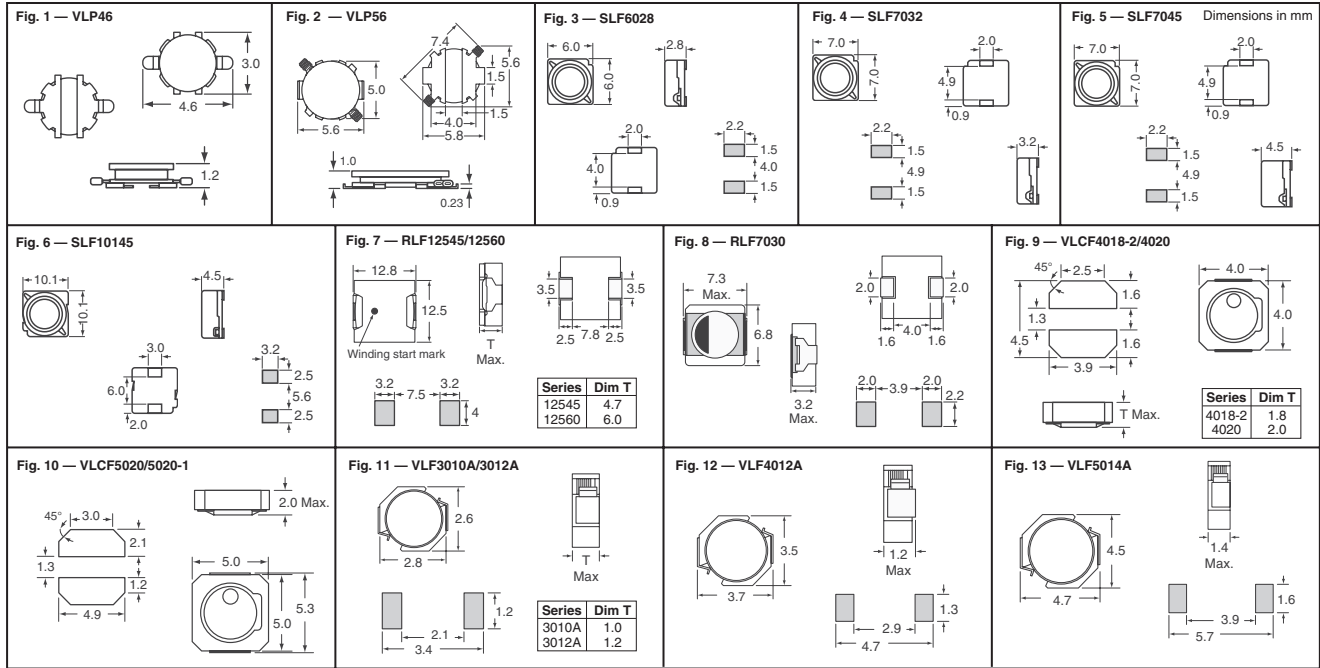
DC current superimposition characteristic, this inductor reduces DC resistance 20% to 50% lower than TDK's existing products. **Applications:** Choke coils in power circuit of notebook computers, LCD, DVD, entertainment electronics, etc. **Specifications:** • Operating Temperature Range: -20°C ~ 105°C • Storage Temperature Range: -40°C ~ 105°C.

VLFC Series:

Features: • Miniature size • Generic use for portable DC to DC converter line • High magnetic shield construction should actualize high resolution for EMC protection **Specifications:** • Operating Temperature Range: -40°C ~ 105°C (including self-temperature rise)

VLF Series:

Features: • These are compact inductors for power line measuring at L2.6 x W2.8mm and 1mm in height, considerably smaller compared to inductors with comparable characteristics • They feature low coil resistance, making them suitable for large currents (e.g., 0.7A at 0.24Ω) • They offer an excellent shielding effect **Applications:** • For mobile phones, hard disk drives and DSCs **Specifications:** • Operating Temperature Range: -40°C ~ 105°C (including self-temperature rise)



E

Inductance (μH)	Inductance Tolerance	Test Frequency (kHz)	DC Res. Maximum (Ω)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		TDK Part No.
						1	10	100		Qty.	Pricing	
Fig. 1 — VLP46 Series												
1.0	±20%	100	0.11	2.30	445-1916-1-ND	1.90	1.76	1.46	445-1916-2-ND	3,000	525.60/M	VLP4612T-1R0M1R5
1.8	±20%	100	0.14	1.70	445-1917-1-ND	1.90	1.76	1.46	445-1917-2-ND	3,000	525.60/M	VLP4612T-1R8M1R3
2.5	±20%	100	0.17	1.40	445-1919-1-ND	1.90	1.76	1.46	445-1919-2-ND	3,000	525.60/M	VLP4612T-2R5M1R1
3.3	±20%	100	0.26	0.90	445-1920-1-ND	1.90	1.76	1.46	445-1920-2-ND	3,000	525.60/M	VLP4612T-3R3MR85
4.7	±20%	100	0.28	0.88	445-1921-1-ND	1.90	1.76	1.46	445-1921-2-ND	3,000	525.60/M	VLP4612T-4R7MR72
6.8	±20%	100	0.38	0.77	445-1922-1-ND	1.90	1.76	1.46	445-1922-2-ND	3,000	525.60/M	VLP4612T-6R8MR67
10.0	±20%	100	0.62	0.59	445-1914-1-ND	1.90	1.76	1.46	445-1914-2-ND	3,000	525.60/M	VLP4612T-100MR52
15.0	±20%	100	0.96	0.45	445-1915-1-ND	1.90	1.76	1.46	445-1915-2-ND	3,000	525.60/M	VLP4612T-150MR42
22.0	±20%	100	1.42	0.39	445-1918-1-ND	1.90	1.76	1.46	445-1918-2-ND	3,000	525.60/M	VLP4612T-220MR34
Fig. 2 — VLP56 Series												
2.7	±20%	100	0.17	1.26	445-1926-1-ND	2.52	2.33	1.94	445-1926-2-ND	3,000	698.40/M	VLP5610T-2R7M1R0
4.7	±20%	100	0.24	1.08	445-1929-1-ND	2.52	2.33	1.94	445-1929-2-ND	3,000	698.40/M	VLP5610T-4R7MR90
6.8	±20%	100	0.30	0.90	445-1930-1-ND	2.52	2.33	1.94	445-1930-2-ND	3,000	698.40/M	VLP5610T-6R8MR80
10.0	±20%	100	0.45	0.72	445-1923-1-ND	2.52	2.33	1.94	445-1923-2-ND	3,000	698.40/M	VLP5610T-100MR65
15.0	±20%	100	0.71	0.63	445-1924-1-ND	2.52	2.33	1.94	445-1924-2-ND	3,000	698.40/M	VLP5610T-150MR52
22.0	±20%	100	0.96	0.50	445-1925-1-ND	2.52	2.33	1.94	445-1925-2-ND	3,000	698.40/M	VLP5610T-220MR45
33.0	±20%	100	1.47	0.41	445-1927-1-ND	2.52	2.33	1.94	445-1927-2-ND	3,000	698.40/M	VLP5610T-330MR36
47.0	±20%	100	1.93	0.36	445-1928-1-ND	2.52	2.33	1.94	445-1928-2-ND	3,000	698.40/M	VLP5610T-470MR29

Inductance (μH)	Inductance Tolerance	Test Frequency (kHz)	DC Res. Nominal (Ω) ±20%	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		TDK Part No.
						1	10	100		Qty.	Pricing	
Fig. 3 — SLF6028 Series												
4.7	20%	100	0.0284	1.6	445-1995-1-ND	2.73	2.28	1.82	445-1995-2-ND	1,000	796.25	SLF6028T-4R7M1R6-PF
6.8	20%	100	0.0354	1.5	445-1997-1-ND	2.73	2.28	1.82	445-1997-2-ND	1,000	796.25	SLF6028T-6R8M1R5-PF
10	20%	100	0.0532	1.3	445-1989-1-ND	2.73	2.28	1.82	445-1989-2-ND	1,000	796.25	SLF6028T-100M1R3-PF
15	20%	100	0.0745	1.0	445-1991-1-ND	2.73	2.28	1.82	445-1991-2-ND	1,000	796.25	SLF6028T-150M1R0-PF
22	20%	100	0.104	0.77	445-1992-1-ND	2.73	2.28	1.82	445-1992-2-ND	1,000	796.25	SLF6028T-220MR77-PF
33	20%	100	0.148	0.69	445-1993-1-ND	2.73	2.28	1.82	445-1993-2-ND	1,000	796.25	SLF6028T-330MR69-PF
47	20%	100	0.21	0.59	445-1994-1-ND	2.73	2.28	1.82	445-1994-2-ND	1,000	796.25	SLF6028T-470MR59-PF
68	20%	100	0.29	0.5	445-1996-1-ND	2.73	2.28	1.82	445-1996-2-ND	1,000	796.25	SLF6028T-680MR50-PF
100	20%	100	0.43	0.42	445-1990-1-ND	2.73	2.28	1.82	445-1990-2-ND	1,000	796.25	SLF6028T-101MR42-PF
Fig. 4 — SLF7032 Series												
3.3	20%	100	0.023	1.9	445-2007-1-ND	1.16	.97	.78	445-2007-2-ND	1,000	337.75	SLF7032T-3R3M1R9-2-PF
4.7	20%	100	0.036	1.7	445-2010-1-ND	1.16	.97	.78	445-2010-2-ND	1,000	337.75	SLF7032T-4R7M1R7-2-PF
6.8	20%	100	0.041	1.6	445-2013-1-ND	1.16	.97	.78	445-2013-2-ND	1,000	337.75	SLF7032T-6R8M1R6-2-PF

(Continued)

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Inductance (µH)	Inductance Tolerance	Test Frequency (kHz)	DC Res. Nominal (Ω) ±20%	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		TDK Part No.
						1	10	100		Qty.	Pricing	
10	20%	100	0.053	1.4	445-1998-1-ND	1.16	.97	.78	445-1998-2-ND	1,000	337.75	SLF7032T-100M1R4-2-PF
15	20%	100	0.075	1.1	445-2001-1-ND	1.16	.97	.78	445-2001-2-ND	1,000	337.75	SLF7032T-150M1R1-2-PF
22	20%	100	0.11	0.96	445-2003-1-ND	1.16	.97	.78	445-2003-2-ND	1,000	337.75	SLF7032T-220MR96-2-PF
33	20%	100	0.16	0.75	445-2005-1-ND	1.16	.97	.78	445-2005-2-ND	1,000	337.75	SLF7032T-330MR75-2-PF
47	20%	100	0.24	0.67	445-2008-1-ND	1.16	.97	.78	445-2008-2-ND	1,000	337.75	SLF7032T-470MR67-2-PF
68	20%	100	0.31	0.59	445-2011-1-ND	1.16	.97	.78	445-2011-2-ND	1,000	337.75	SLF7032T-680MR59-2-PF
100	20%	100	0.45	0.45	445-1999-1-ND	1.16	.97	.78	445-1999-2-ND	1,000	337.75	SLF7032T-101MR45-2-PF
150	20%	100	0.65	0.37	445-2002-1-ND	1.16	.97	.78	445-2002-2-ND	1,000	337.75	SLF7032T-151MR37-2-PF
220	20%	100	1.05	0.29	445-2004-1-ND	1.16	.97	.78	445-2004-2-ND	1,000	337.75	SLF7032T-221MR29-2-PF
330	20%	100	1.67	0.22	445-2006-1-ND	1.16	.97	.78	445-2006-2-ND	1,000	337.75	SLF7032T-331MR22-2-PF
470	20%	100	2.05	0.2	445-2009-1-ND	1.16	.97	.78	445-2009-2-ND	1,000	337.75	SLF7032T-471MR20-2-PF
680	20%	100	3.15	0.16	445-2012-1-ND	1.16	.97	.78	445-2012-2-ND	1,000	337.75	SLF7032T-681MR16-2-PF
1000	20%	100	4.78	0.13	445-2000-1-ND	1.16	.97	.78	445-2000-2-ND	1,000	337.75	SLF7032T-102MR13-2-PF

Fig. 5 — SLF7045 Series

3.3	20%	100	0.02	2.5	445-2023-1-ND	1.31	1.09	.88	445-2023-2-ND	1,000	381.50	SLF7045T-3R3M2R5-PF
4.7	20%	100	0.03	2	445-2026-1-ND	1.31	1.09	.88	445-2026-2-ND	1,000	381.50	SLF7045T-4R7M2R0-PF
6.8	20%	100	0.039	1.7	445-2029-1-ND	1.31	1.09	.88	445-2029-2-ND	1,000	381.50	SLF7045T-6R8M1R7-PF
10	20%	100	0.036	1.3	445-2014-1-ND	1.31	1.09	.88	445-2014-2-ND	1,000	381.50	SLF7045T-100M1R3-PF
15	20%	100	0.052	1.1	445-2017-1-ND	1.31	1.09	.88	445-2017-2-ND	1,000	381.50	SLF7045T-150M1R1-PF
22	20%	100	0.061	0.9	445-2019-1-ND	1.31	1.09	.88	445-2019-2-ND	1,000	381.50	SLF7045T-220MR90-PF
33	20%	100	0.096	0.82	445-2021-1-ND	1.31	1.09	.88	445-2021-2-ND	1,000	381.50	SLF7045T-330MR82-PF
47	20%	100	0.125	0.75	445-2024-1-ND	1.31	1.09	.88	445-2024-2-ND	1,000	381.50	SLF7045T-470MR75-PF
68	20%	100	0.175	0.6	445-2027-1-ND	1.31	1.09	.88	445-2027-2-ND	1,000	381.50	SLF7045T-680MR60-PF
100	20%	100	0.25	0.5	445-2015-1-ND	1.31	1.09	.88	445-2015-2-ND	1,000	381.50	SLF7045T-101MR50-PF
150	20%	100	0.34	0.4	445-2018-1-ND	1.31	1.09	.88	445-2018-2-ND	1,000	381.50	SLF7045T-151MR40-PF
220	20%	100	0.52	0.33	445-2020-1-ND	1.31	1.09	.88	445-2020-2-ND	1,000	381.50	SLF7045T-221MR33-PF
330	20%	100	0.74	0.25	445-2022-1-ND	1.31	1.09	.88	445-2022-2-ND	1,000	381.50	SLF7045T-331MR25-PF
470	20%	100	1.05	0.22	445-2025-1-ND	1.31	1.09	.88	445-2025-2-ND	1,000	381.50	SLF7045T-471MR22-PF
680	20%	100	1.48	0.2	445-2028-1-ND	1.31	1.09	.88	445-2028-2-ND	1,000	381.50	SLF7045T-681MR20-PF
1000	20%	100	2.28	0.14	445-2016-1-ND	1.31	1.09	.88	445-2016-2-ND	1,000	381.50	SLF7045T-102MR14-PF

Fig. 6 — SLF10145 Series

10	20%	1	0.0364	2.5	445-1975-1-ND	1.76	1.47	1.18	445-1975-2-ND	500	256.38	SLF10145T-100M2R5-PF
15	20%	1	0.0472	2.2	445-1978-1-ND	1.76	1.47	1.18	445-1978-2-ND	500	256.38	SLF10145T-150M2R2-PF
22	20%	1	0.0591	1.9	445-1981-1-ND	1.76	1.47	1.18	445-1981-2-ND	500	256.38	SLF10145T-220M1R9-PF
33	20%	1	0.0815	1.6	445-1983-1-ND	1.76	1.47	1.18	445-1983-2-ND	500	256.38	SLF10145T-330M1R6-PF
47	20%	1	0.1	1.4	445-1985-1-ND	1.76	1.47	1.18	445-1985-2-ND	500	256.38	SLF10145T-470M1R4-PF
68	20%	1	0.14	1.2	445-1987-1-ND	1.76	1.47	1.18	445-1987-2-ND	500	256.38	SLF10145T-680M1R2-PF
100	20%	1	0.2	1.0	445-1976-1-ND	1.76	1.47	1.18	445-1976-2-ND	500	256.38	SLF10145T-101M1R0-PF
150	20%	1	0.35	0.79	445-1979-1-ND	1.76	1.47	1.18	445-1979-2-ND	500	256.38	SLF10145T-151MR79-PF
220	20%	1	0.47	0.65	445-1982-1-ND	1.76	1.47	1.18	445-1982-2-ND	500	256.38	SLF10145T-221MR65-PF
330	20%	1	0.68	0.54	445-1984-1-ND	1.76	1.47	1.18	445-1984-2-ND	500	256.38	SLF10145T-331MR54-PF
470	20%	1	1.03	0.47	445-1986-1-ND	1.76	1.47	1.18	445-1986-2-ND	500	256.38	SLF10145T-471MR47-PF
680	20%	1	1.6	0.38	445-1988-1-ND	1.76	1.47	1.18	445-1988-2-ND	500	256.38	SLF10145T-681MR38-PF
1000	20%	1	2.8	0.29	445-1977-1-ND	1.76	1.47	1.18	445-1977-2-ND	500	256.38	SLF10145T-102MR29-PF
1500	20%	1	3.4	0.22	445-1980-1-ND	1.76	1.47	1.18	445-1980-2-ND	500	256.38	SLF10145T-152MR22-PF

Fig. 7 — RLF12545/RLF12560 Series

1.9	30%	100	0.0036	13	445-2948-1-ND	3.96	3.30	2.64	445-2948-2-ND	500	577.50	RLF12545T-1R9N100-PF
2.7	30%	100	0.0045	12	445-2949-1-ND	3.96	3.30	2.64	445-2949-2-ND	500	577.50	RLF12545T-2R7N8R7-PF
4.2	30%	100	0.0074	9.5	445-2950-1-ND	3.96	3.30	2.64	445-2950-2-ND	500	577.50	RLF12545T-4R2N6R5-PF
5.6	30%	100	0.0085	8	445-2951-1-ND	3.96	3.30	2.64	445-2951-2-ND	500	577.50	RLF12545T-5R6N6R1-PF
7.8	30%	100	0.0102	7	445-2952-1-ND	3.96	3.30	2.64	445-2952-2-ND	500	577.50	RLF12545T-7R8N5R4-PF
10	20%	100	0.0124	6	445-2947-1-ND	3.96	3.30	2.64	445-2947-2-ND	500	577.50	RLF12545T-100M5R1-PF
1.0	30%	100	0.0028	18.5	445-2954-1-ND	4.20	3.50	2.80	445-2954-2-ND	500	612.50	RLF12560T-1R0N140
1.9	30%	100	0.0036	15.6	445-2955-1-ND	4.20	3.50	2.80	445-2955-2-ND	500	612.50	RLF12560T-1R9N120
2.7	30%	100	0.0045	14.4	445-2956-1-ND	4.20	3.50	2.80	445-2956-2-ND	500	612.50	RLF12560T-2R7N110
4.2	30%	100	0.0074	10.2	445-2957-1-ND	4.20	3.50	2.80	445-2957-2-ND	500	612.50	RLF12560T-4R2N100
5.6	30%	100	0.0085	9.7	445-2958-1-ND	4.20	3.50	2.80	445-2958-2-ND	500	612.50	RLF12560T-5R6N9R2
7.8	30%	100	0.0102	8.2	445-2959-1-ND	4.20	3.50	2.80	445-2959-2-ND	500	612.50	RLF12560T-7R8N8R2
10	20%	100	0.0124	7.5	445-2953-1-ND	4.20	3.50	2.80	445-2953-2-ND	500	612.50	RLF12560T-100M7R5

Fig. 8 — RLF7030 Series

1.0	30%	100	0.0073	7.9	445-2960-1-ND	2.88	2.40	1.92	445-2960-2-ND	1,000	840.00	RLF7030T-1R0N6R4
1.5	30%	100	0.0080	6.5	445-2961-1-ND	2.88	2.40	1.92	445-2961-2-ND	1,000	840.00	RLF7030T-1R5N6R1
2.2	20%	100	0.0100	5.5	445-2962-1-ND	2.88	2.40	1.92	445-2962-2-ND	1,000	840.00	RLF7030T-2R2M5R4
3.3	20%	100	0.0174	4.4	445-2963-1-ND	2.88	2.40	1.92	445-2963-2-ND	1,000	840.00	RLF7030T-3R3M4R1
4.7	20%	100	0.0260	3.5	445-2964-1-ND	2.88	2.40	1.92	445-2964-2-ND	1,000	840.00	RLF7030T-4R7M3R4
6.8	20%	100	0.0373	3.0	445-2965-1-ND	2.88	2.40	1.92	445-2965-2-ND	1,000	840.00	RLF7030T-6R8M2R8

Inductance (µH)	Inductance Tolerance	Test Frequency (kHz)	DC Res. Nominal (Ω)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		TDK Part No.
						1	10	100		Qty.	Pricing	
Fig. 9 — VLFC4018-2 Series												
1.6	±30%	100	0.044	1.72	445-3171-1-ND	.77	.68	.60	445-3171-2-ND	1,000	298.00	VLFC4018T-1R6N1R7-2
2.2	±30%	100	0.052	1.44	445-3172-1-ND	.77	.68	.60	445-3172-2-ND	1,000	298.00	VLFC4018T-2R2N1R4-2
3.3	±30%	100	0.069	1.26	445-3173-1-ND	.77	.68	.60	445-3173-2-ND	1,000	298.00	VLFC4018T-3R3N1R2-2
4.7	±30%	100	0.088	1.07	445-3174-1-ND	.77	.68	.60	445-3174-2-ND	1,000	298.00	VLFC4018T-4R7N1R0-2
6.8	±30%	100	0.108	0.94	445-3175-1-ND	.77	.68	.60	445-3175-2-ND	1,000	298.00	VLFC4018T-6R8N9R4-2
10	±20%	100	0.163	0.74	445-3176-1-ND	.77	.68	.60	445-3176-2-ND	1,000	298.00	VLFC4018T-100MR74-2
15	±20%	100	0.233	0.59	445-3177-1-ND	.77	.68	.60	445-3177-2-ND	1,000	298.00	VLFC4018T-150MR59-2
22	±20%	100	0.321	0.49	445-3178-1-ND	.77	.68	.60	445-3178-2-ND	1,000	298.00	VLFC4018T-220MR49-2
33	±20%	100	0.469	0.42	445-3179-1-ND	.77	.68	.60	445-3179-2-ND	1,000	298.00	VLFC4018T-330MR42-2
47	±20%	100	0.661	0.34	445-3180-1-ND	.77	.68	.60	445-3180-2-ND	1,000	298.00	VLFC4018T-470MR34-2

(Continued)

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Inductance (μH)	Inductance Tolerance	Test Frequency (kHz)	DC Res. Nominal (Ω)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		TDK Part No.
						1	10	100		Qty.	Pricing	
Fig. 9 — VLCF4020 Series												
1.8	±30%	100	0.046	1.97	445-3181-1-ND	.77	.68	.60	445-3181-2-ND	1,000	298.00	VLCF4020T-1R8N1R9
2.2	±30%	100	0.054	1.72	445-3182-1-ND	.77	.68	.60	445-3182-2-ND	1,000	298.00	VLCF4020T-2R2N1R7
3.3	±30%	100	0.071	1.52	445-3183-1-ND	.77	.68	.60	445-3183-2-ND	1,000	298.00	VLCF4020T-3R3N1R5
4.7	±30%	100	0.089	1.24	445-3184-1-ND	.77	.68	.60	445-3184-2-ND	1,000	298.00	VLCF4020T-4R7N1R2
6.8	±30%	100	0.119	1.05	445-3185-1-ND	.77	.68	.60	445-3185-2-ND	1,000	298.00	VLCF4020T-6R8N1R0
10	±20%	100	0.168	0.85	445-3186-1-ND	.77	.68	.60	445-3186-2-ND	1,000	298.00	VLCF4020T-100MR85
15	±20%	100	0.275	0.68	445-3187-1-ND	.77	.68	.60	445-3187-2-ND	1,000	298.00	VLCF4020T-150MR68
22	±20%	100	0.391	0.56	445-3188-1-ND	.77	.68	.60	445-3188-2-ND	1,000	298.00	VLCF4020T-220MR56
27	±20%	100	0.451	0.48	445-3189-1-ND	.77	.68	.60	445-3189-2-ND	1,000	298.00	VLCF4020T-270MR48
33	±20%	100	0.571	0.47	445-3190-1-ND	.77	.68	.60	445-3190-2-ND	1,000	298.00	VLCF4020T-330MR47
47	±20%	100	0.849	0.39	445-3191-1-ND	.77	.68	.60	445-3191-2-ND	1,000	298.00	VLCF4020T-470MR39
100	±20%	100	1.308	0.26	445-3192-1-ND	.77	.68	.60	445-3192-2-ND	1,000	298.00	VLCF4020T-101MR26
Fig. 10 — VLCF5020 Series												
1.8	±30%	100	0.049	2.07	445-3193-1-ND	.81	.72	.63	445-3193-2-ND	500	157.50	VLCF5020T-1R8N2R0
2.7	±30%	100	0.058	1.76	445-3194-1-ND	.81	.72	.63	445-3194-2-ND	500	157.50	VLCF5020T-2R7N1R7
3.3	±30%	100	0.069	1.6	445-3195-1-ND	.81	.72	.63	445-3195-2-ND	500	157.50	VLCF5020T-3R3N1R6
4.7	±30%	100	0.079	1.4	445-3196-1-ND	.81	.72	.63	445-3196-2-ND	500	157.50	VLCF5020T-4R7N1R4
6.8	±30%	100	0.102	1.11	445-3197-1-ND	.81	.72	.63	445-3197-2-ND	500	157.50	VLCF5020T-6R8N1R1
10	±20%	100	0.151	0.87	445-3198-1-ND	.81	.72	.63	445-3198-2-ND	500	157.50	VLCF5020T-100MR87
15	±20%	100	0.214	0.71	445-3199-1-ND	.81	.72	.63	445-3199-2-ND	500	157.50	VLCF5020T-150MR71
22	±20%	100	0.311	0.58	445-3200-1-ND	.81	.72	.63	445-3200-2-ND	500	157.50	VLCF5020T-220MR58
33	±20%	100	0.435	0.48	445-3201-1-ND	.81	.72	.63	445-3201-2-ND	500	157.50	VLCF5020T-330MR48
47	±20%	100	0.623	0.40	445-3202-1-ND	.81	.72	.63	445-3202-2-ND	500	157.50	VLCF5020T-470MR40
100	±20%	100	1.375	0.27	445-3203-1-ND	.81	.72	.63	445-3203-2-ND	500	157.50	VLCF5020T-101MR27
Fig. 10 — VLCF5020-1 Series												
2.2	±30%	100	0.058	2.62	445-3204-1-ND	.81	.72	.63	445-3204-2-ND	500	157.50	VLCF5020T-2R2N2R6-1
2.7	±30%	100	0.069	2.28	445-3205-1-ND	.81	.72	.63	445-3205-2-ND	500	157.50	VLCF5020T-2R7N2R2-1
3.3	±30%	100	0.079	2.02	445-3206-1-ND	.81	.72	.63	445-3206-2-ND	500	157.50	VLCF5020T-3R3N2R0-1
4.7	±30%	100	0.102	1.7	445-3207-1-ND	.81	.72	.63	445-3207-2-ND	500	157.50	VLCF5020T-4R7N1R7-1
6.8	±30%	100	0.138	1.39	445-3208-1-ND	.81	.72	.63	445-3208-2-ND	500	157.50	VLCF5020T-6R8N1R3-1
10	±20%	100	0.198	1.13	445-3209-1-ND	.81	.72	.63	445-3209-2-ND	500	157.50	VLCF5020T-100MR1-1
15	±20%	100	0.292	0.90	445-3210-1-ND	.81	.72	.63	445-3210-2-ND	500	157.50	VLCF5020T-150MR90-1
22	±20%	100	0.413	0.75	445-3211-1-ND	.81	.72	.63	445-3211-2-ND	500	157.50	VLCF5020T-220MR75-1
33	±20%	100	0.597	1.62	445-3212-1-ND	.81	.72	.63	445-3212-2-ND	500	157.50	VLCF5020T-330MR62-1
47	±20%	100	0.875	0.51	445-3213-1-ND	.81	.72	.63	445-3213-2-ND	500	157.50	VLCF5020T-470MR51-1
Fig. 11 — VLF3010A Series												
1.5	±30%	100	0.068	1.2	445-3214-1-ND	.90	.80	.70	445-3214-2-ND	2,000	350.00/M	VLF3010AT-1R5N1R2
2.2	±20%	100	0.10	1.0	445-3215-1-ND	.90	.80	.70	445-3215-2-ND	2,000	350.00/M	VLF3010AT-2R2M1R0
3.3	±20%	100	0.15	0.87	445-3216-1-ND	.90	.80	.70	445-3216-2-ND	2,000	350.00/M	VLF3010AT-3R3MR87
4.7	±20%	100	0.24	0.70	445-3217-1-ND	.90	.80	.70	445-3217-2-ND	2,000	350.00/M	VLF3010AT-4R7MR70
6.8	±20%	100	0.34	0.61	445-3218-1-ND	.90	.80	.70	445-3218-2-ND	2,000	350.00/M	VLF3010AT-6R8MR61
10	±20%	100	0.58	0.49	445-3219-1-ND	.90	.80	.70	445-3219-2-ND	2,000	350.00/M	VLF3010AT-100MR49
15	±20%	100	0.75	0.40	445-3220-1-ND	.90	.80	.70	445-3220-2-ND	2,000	350.00/M	VLF3010AT-150MR40
22	±20%	100	1.3	0.33	445-3221-1-ND	.90	.80	.70	445-3221-2-ND	2,000	350.00/M	VLF3010AT-220MR33
Fig. 11 — VLF3012A Series												
1.5	±30%	100	0.059	1.2	445-3222-1-ND	.86	.76	.67	445-3222-2-ND	2,000	333.00/M	VLF3012AT-1R5N1R2
2.2	±20%	100	0.088	1.0	445-3223-1-ND	.86	.76	.67	445-3223-2-ND	2,000	333.00/M	VLF3012AT-2R2M1R0
3.3	±20%	100	0.11	0.87	445-3224-1-ND	.86	.76	.67	445-3224-2-ND	2,000	333.00/M	VLF3012AT-3R3MR87
4.7	±20%	100	0.16	0.74	445-3225-1-ND	.86	.76	.67	445-3225-2-ND	2,000	333.00/M	VLF3012AT-4R7MR74
6.8	±20%	100	0.23	0.59	445-3226-1-ND	.86	.76	.67	445-3226-2-ND	2,000	333.00/M	VLF3012AT-6R8MR59
10	±20%	100	0.36	0.49	445-3227-1-ND	.86	.76	.67	445-3227-2-ND	2,000	333.00/M	VLF3012AT-100MR49
15	±20%	100	0.54	0.41	445-3228-1-ND	.86	.76	.67	445-3228-2-ND	2,000	333.00/M	VLF3012AT-150MR41
22	±20%	100	0.66	0.33	445-3229-1-ND	.86	.76	.67	445-3229-2-ND	2,000	333.00/M	VLF3012AT-220MR33
33	±20%	100	1.1	0.27	445-3230-1-ND	.86	.76	.67	445-3230-2-ND	2,000	333.00/M	VLF3012AT-330MR27
47	±20%	100	1.9	0.22	445-3231-1-ND	.86	.76	.67	445-3231-2-ND	2,000	333.00/M	VLF3012AT-470MR22
Fig. 12 — VLF4012A Series												
1.5	±20%	100	0.069	1.8	445-3232-1-ND	.81	.72	.63	445-3232-2-ND	1,000	315.00	VLF4012AT-1R5M1R6
2.2	±20%	100	0.076	1.5	445-3233-1-ND	.81	.72	.63	445-3233-2-ND	1,000	315.00	VLF4012AT-2R2M1R5
3.3	±20%	100	0.1	1.3	445-3234-1-ND	.81	.72	.63	445-3234-2-ND	1,000	315.00	VLF4012AT-3R3M1R3
4.7	±20%	100	0.14	1.1	445-3235-1-ND	.81	.72	.63	445-3235-2-ND	1,000	315.00	VLF4012AT-4R7M1R1
6.8	±20%	100	0.2	0.96	445-3236-1-ND	.81	.72	.63	445-3236-2-ND	1,000	315.00	VLF4012AT-6R8MR96
10	±20%	100	0.3	0.80	445-3237-1-ND	.81	.72	.63	445-3237-2-ND	1,000	315.00	VLF4012AT-100MR79
15	±20%	100	0.46	0.63	445-3238-1-ND	.81	.72	.63	445-3238-2-ND	1,000	315.00	VLF4012AT-150MR63
22	±20%	100	0.71	0.52	445-3239-1-ND	.81	.72	.63	445-3239-2-ND	1,000	315.00	VLF4012AT-220MR51
33	±20%	100	1.2	0.44	445-3240-1-ND	.81	.72	.63	445-3240-2-ND	1,000	315.00	VLF4012AT-330MR39
47	±20%	100	2.0	0.36	445-3241-1-ND	.81	.72	.63	445-3241-2-ND	1,000	315.00	VLF4012AT-470MR30
Fig. 13 — VLF5014A Series												
4.7	±20%	100	0.12	1.7	445-3242-1-ND	1.26	1.12	.98	445-3242-2-ND	1,000	490.00	VLF5014AT-4R7M1R1
6.8	±20%	100	0.16	1.4	445-3243-1-ND	1.26	1.12	.98	445-3243-2-ND	1,000	490.00	VLF5014AT-6R8MR99
10	±20%	100	0.19	1.1	445-3244-1-ND	1.26	1.12	.98	445-3244-2-ND	1,000	490.00	VLF5014AT-100MR92
15	±20%	100	0.28	0.97	445-3245-1-ND	1.26	1.12	.98	445-3245-2-ND	1,000	490.00	VLF5014AT-150MR76

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