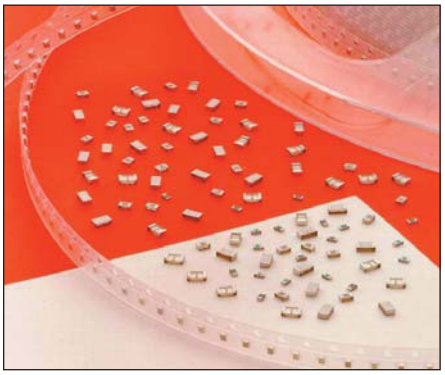
Accu-L® Thin Film RF Inductors

DLA Land and Maritime Drawings



These ranges of surface mount Thin Film RF inductors provide DLA approved parts in 0402, 0603, and 0805.

DLA 11017 covers 0402 case size.
DLA 11018 covers 0603 case size.
DLA 11019 covers 0805 case size.

HOW TO ORDER

11019-	100	J	U	*
Drawing Number	Inductance Value	Inductance Tolerance	Termination Finish	Additional Testing Option

DLA 11017 0402 CASE SIZE

2/ DLA-Land & Maritime Drawing 11017-3/	Inductance (nH)	Available Tolerances	Vendor A Similar Designation 4/
R56 * U *	0.56	A, B, C	DQL02R56_HLTR
R68 * U *	0.68	A, B, C	DQL02R68_HLTR
R82 * U *	0.82	A, B, C	DQL02R82_HLTR
1R0 * U *	1.0	A, B, C, D	DQL021R0_HLTR
1R2 * U *	1.2	A, B, C, D	DQL021R2_HLTR
1R5 * U *	1.5	A, B, C, D	DQL021R5_HLTR
1R8 * U *	1.8	A, B, C, D	DQL021R8_HLTR
2R2 * U *	2.2	A, B, C, D	DQL022R2_HLTR
2R7 * U *	2.7	A, B, C, D	DQL022R7_HLTR
3R3 * U *	3.3	B, C, D	DQL023R3_HLTR
3R9 * U *	3.9	B, C, D	DQL023R9_HLTR
4R7 * U *	4.7	B, C, D	DQL024R7_HLTR
5R6 * U *	5.6	B, C, D	DQL025R6_HLTR
6R8 * U *	6.8	B, C, D	DQL026R8_HLTR

ELECTRICAL SPECIFICATIONS

Inductance (nH)	450 MHz Test Frequency Q Min	450 MHz Test Frequency Q Typical	900 MHz Test Freq. Q Typical	1900 MHz Test Freq. Q Typical	2400 MHz Test Freq. Q Typical	SRF Min (GHz)	Rdc Max (Ohm)	Idc Max (mA)
0.56	35	45	55	65	75	20.0	0.02	1000
0.68	30	40	50	60	70	20.0	0.04	750
0.82	25	40	50	60	70	20.0	0.06	500
1.0	20	30	35	40	50	20.0	0.15	500
1.2	20	30	30	40	45	20.0	0.20	400
1.5	20	25	30	40	40	18.0	0.20	400
1.8	18	20	30	35	40	16.0	0.20	400
2.2	15	20	25	35	40	15.0	0.20	400
2.7	15	20	25	35	40	9.5	0.25	250
3.3	15	20	25	35	40	8.5	0.40	250
3.9	13	20	20	30	30	8.0	0.45	250
4.7	13	20	20	30	30	7.5	0.45	250
5.6	13	20	20	30	30	7.0	0.65	200
6.8	12	15	20	25	30	6.5	0.90	200

DLA 11018 0603 CASE SIZE

2/ DLA-Land & Maritime Drawing 11018-3/	Inductance (nH)	Available Tolerances	Vendor A Similar Designation 4/
1R2 * U *	1.2	B, C, D	DQL031R2_GWTR
1R5 * U *	1.5	B, C, D	DQL031R5_GWTR
1R8 * U *	1.8	B, C, D	DQL031R8_GWTR
2R2 * U *	2.2	B, C, D	DQL032R2_GWTR
2R7 * U *	2.7	B, C, D	DQL032R7_GWTR
3R3 * U *	3.3	B, C, D	DQL033R3_GWTR
3R9 * U *	3.9	B, C, D	DQL033R9_GWTR
4R7 * U *	4.7	B, C, D	DQL034R7_GWTR
5R6 * U *	5.6	C, D	DQL035R6_GWTR
6R8 * U *	6.8	C, D	DQL036R8_GWTR
8R2 * U *	8.2	C, D	DQL038R2_GWTR
100 * U *	10.0	G, J	DQL03100_GWTR
120 * U *	12.0	G, J	DQL03120_GWTR
150 * U *	15.0	G, J	DQL03150_GWTR

ELECTRICAL SPECIFICATIONS

Inductance (nH)	450 MHz Test Frequency L (nH)	450 MHz Test Frequency Q Typical	900 MHz Test Frequency L (nH)	900 MHz Test Frequency Q Typical	1900 MHz Test Frequency L (nH)	1900 MHz Test Frequency Q Typical	2400 MHz Test Frequency L (nH)	2400 MHz Test Frequency Q Typical	SRF Min (GHz)	Rdc Max (Ohm)	Idc Max (mA)
1.2	1.2	49	1.2	70	1.2	134	1.2	170	10.0	0.04	1000
1.5	1.5	26	1.54	39	1.52	63	1.52	76	10.0	0.06	1000
1.8	1.8	20	1.74	30	1.73	50	1.72	59	10.0	0.08	1000
2.2	2.2	20	2.2	30	2.24	49	2.24	56	10.0	0.08	1000
2.7	2.7	21	2.7	30	2.75	48	2.79	54	9.0	0.08	750
3.3	3.3	24	3.33	35	3.39	56	3.47	64	8.4	0.10	750
3.9	3.9	25	3.9	57	4.06	60	4.21	69	6.5	0.14	500
4.7	4.7	23	4.68	32	4.92	46	5.2	49	5.5	0.15	500
5.6	5.6	26	5.65	36	5.94	54	6.23	60	5.0	0.25	300
6.8	6.8	23	6.9	33	7.3	47	8.1	39	4.5	0.30	300
8.2	8.2	23	8.4	31	10.0	35	12.1	31	3.8	0.35	300
10.0	10.0	28	10.0	39	11.8	47	14.4	41	3.5	0.45	300
12.0	12.0	28	13.2	38	14.1	30	17.2	20	3.0	0.50	300
15.0	15.0	28	16.2	38	25.9	30	49.8	15	2.5	0.60	300

DLA 11019 0805 CASE SIZE

2/ DLA-Land & Maritime Drawing 11019-3/	Inductance (nH)	Available Tolerances	Vendor A Similar Designation 4/
1R2 * U *	1.2	B, C, D	DQL051R2_EWTR
1R5 * U *	1.5	B, C, D	DQL051R5_EWTR
1R8 * U *	1.8	B, C, D	DQL051R8_EWTR
2R2 * U *	2.2	B, C, D	DQL052R2_EWTR
2R7 * U *	2.7	B, C, D	DQL052R7_EWTR
3R3 * U *	3.3	B, C, D	DQL053R3_EWTR
3R9 * U *	3.9	B, C, D	DQL053R9_EWTR
4R7 * U *	4.7	B, C, D	DQL054R7_EWTR
5R6 * U *	5.6	C, D	DQL055R6_EWTR
6R8 * U *	6.8	C, D	DQL056R8_EWTR
8R2 * U *	8.2	C, D	DQL058R2_EWTR
100 * U *	10.0	G, J	DQL05100_EWTR
120 * U *	12.0	G, J	DQL05120_EWTR
150 * U *	15.0	G, J	DQL05150_EWTR
180 * U *	18.0	G, J	DQL05180_EWTR
220 * U *	22.0	G, J	DQL05220_EWTR

ELECTRICAL SPECIFICATIONS

Inductance (nH)	450 MHz Test Frequency L (nH)	450 MHz Test Frequency Q Typical	900 MHz Test Frequency L (nH)	900 MHz Test Frequency Q Typical	1900 MHz Test Frequency L (nH)	1900 MHz Test Frequency Q Typical	2400 MHz Test Frequency L (nH)	2400 MHz Test Frequency Q Typical	SRF Min (GHz)	Rdc Max (Ohm)	Idc Max (mA)
1.2	1.2	60	1.2	92	1.2	122	1.2	92	10.0	0.05	1000
1.5	1.5	50	1.5	74	1.5	102	1.5	84	10.0	0.05	1000
1.8	1.8	50	1.8	72	1.8	88	1.9	73	10.0	0.06	1000
2.2	2.2	42	2.2	62	2.2	82	2.3	72	10.0	0.07	1000
2.7	2.7	42	2.7	62	2.8	80	2.9	70	10.0	0.08	1000
3.3	3.3	38	3.3	46	3.4	48	3.5	57	10.0	0.11	750
3.9	3.9	27	3.9	36	4.0	38	4.1	42	10.0	0.20	750
4.7	4.7	43	4.8	62	5.3	76	5.8	60	5.5	0.10	750
5.6	5.6	50	5.7	68	6.3	73	7.6	62	4.6	0.10	750
6.8	6.8	43	7.0	62	7.7	71	9.4	50	4.5	0.11	750
8.2	8.2	43	8.5	56	10.0	55	15.2	32	3.5	0.12	750
10.0	10.0	46	10.6	60	13.4	52	–	–	2.5	0.13	750
12.0	12.0	40	12.9	50	17.3	40	–	–	2.4	0.20	750
15.0	15.0	36	16.7	46	27.0	23	–	–	2.2	0.20	750
18.0	18.0	30	21.9	27	–	–	–	–	1.7	0.35	500
22.0	22.0	36	27.5	33	–	–	–	–	1.4	0.40	500