

MLI1005H Series

Multilayer Chip Ceramic Inductors

FEATURES

- Monolithic structure for high reliability
- High self-resonant frequency
- Excellent solderability and high heat resistance
- Operate temperature range $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (Including self temp. rise)
- RoHS compliant



APPLICATIONS

- RF circuit in telecommunication and other equipments

Explanation of Part Number

MLI ①	1005 ②	H ③	10N ④	J ⑤	T ⑥	F ⑦																														
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SHAPE AND DIMENSIONS

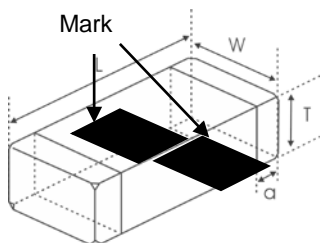


Fig.1

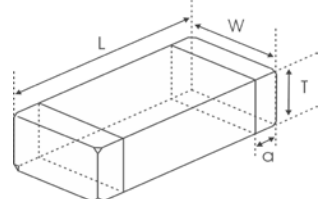


Fig.2

Type	L	W	T	a	Unit: mm [inch]	
					$\leq 10\text{nH}$	$\geq 12\text{nH}$
MIL1005H [0402]	1.0 ± 0.15 [.039 \pm .006]	0.5 ± 0.15 [.020 \pm .006]	0.5 ± 0.15 [.020 \pm .006]	0.25 ± 0.1 [.010 \pm .004]	Fig.1	Fig.2

Specification

Part Number	Inductance	Min. Quality Factor	L,Q Test Freq. L/Q	Typical Q @ Freq. (MHz)			Min. Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
				100	800	1000			
Units	nH	-	MHz	-			MHz	Ω	mA
Symbol	L	Q	Freq	Q			S.R.F	DCR	I _r
MLI1005H-0N6□TF	0.6	4	100	6	35	41	10000	0.10	800
MLI1005H-1N0□TF	1.0	8	100	11	34	36	10000	0.10	400
MLI1005H-1N1□TF	1.1	8	100	11	34	36	10000	0.10	400
MLI1005H-1N2□TF	1.2	8	100	11	34	36	10000	0.10	400
MLI1005H-1N3□TF	1.3	8	100	11	34	36	10000	0.10	400
MLI1005H-1N5□TF	1.5	8	100	11	34	36	6000	0.10	300
MLI1005H-1N6□TF	1.6	8	100	11	32	35	6000	0.10	300
MLI1005H-1N8□TF	1.8	8	100	11	30	34	6000	0.10	300
MLI1005H-2N0□TF	2.0	8	100	10	29	33	6000	0.20	300
MLI1005H-2N2□TF	2.2	8	100	10	29	33	6000	0.20	300
MLI1005H-2N4□TF	2.4	8	100	10	29	32	6000	0.20	300
MLI1005H-2N7□TF	2.7	8	100	10	29	32	6000	0.20	300
MLI1005H-3N0□TF	3.0	8	100	10	29	32	6000	0.20	300
MLI1005H-3N3□TF	3.3	8	100	10	29	32	6000	0.20	300
MLI1005H-3N6□TF	3.6	8	100	10	28	31	4000	0.20	300
MLI1005H-3N9□TF	3.9	8	100	10	28	31	4000	0.20	300
MLI1005H-4N3□TF	4.3	8	100	10	28	31	4000	0.20	300
MLI1005H-4N7□TF	4.7	8	100	10	28	31	4000	0.20	300
MLI1005H-5N1□TF	5.1	8	100	10	28	30	4000	0.30	300
MLI1005H-5N6□TF	5.6	8	100	10	28	30	4000	0.30	300
MLI1005H-6N2□TF	6.2	8	100	10	27	30	3900	0.30	300
MLI1005H-6N8□TF	6.8	8	100	10	27	30	3900	0.30	300
MLI1005H-7N5□TF	7.5	8	100	10	27	30	3700	0.40	300
MLI1005H-8N2□TF	8.2	8	100	10	27	30	3600	0.40	300
MLI1005H-9N1□TF	9.1	8	100	10	27	30	3400	0.40	300
MLI1005H-10N□TF	10	8	100	10	27	30	3200	0.40	300
MLI1005H-12N□TF	12	8	100	10	26	29	2700	0.50	300
MLI1005H-15N□TF	15	8	100	10	26	28	2300	0.50	300
MLI1005H-18N□TF	18	8	100	10	25	27	2100	0.60	300
MLI1005H-20N□TF	20	8	100	10	25	26	2000	0.60	300
MLI1005H-22N□TF	22	8	100	10	25	25	1900	0.60	300
MLI1005H-27N□TF	27	8	100	10	25	23	1600	0.70	300
MLI1005H-33N□TF	33	8	100	10	22	22	1300	0.80	200
MLI1005H-39N□TF	39	8	100	10	22	19	1200	1.00	200
MLI1005H-43N□TF	43	8	100	10	21	16	1100	1.10	200
MLI1005H-47N□TF	47	8	100	10	21	16	1000	1.10	200
MLI1005H-56N□TF	56	8	100	10	18	13	750	1.20	200
MLI1005H-68N□TF	68	8	100	10	18	9	750	1.40	180
MLI1005H-82N□TF	82	8	100	10	13	-	750	2.40	150
MLI1005H-R10□TF	100	8	100	10	12	-	700	2.60	150
MLI1005H-R12□TF	120	8	100	10	-	-	600	2.80	150
MLI1005H-R15□TF	150	8	100	10	-	-	550	3.20	100
MLI1005H-R18□TF	180	8	100	10	-	-	500	3.70	100
MLI1005H-R22□TF	220	8	100	12	-	-	450	4.00	100
MLI1005H-R27□TF	270	8	100	12	-	-	400	4.50	100
MLI1005H-R30□TF	300	8	100	12	-	-	400	4.50	100
MLI1005H-R33□TF	330	6	50	8	-	-	350	7.00	50
MLI1005H-R36□TF	360	6	50	8	-	-	300	7.50	50

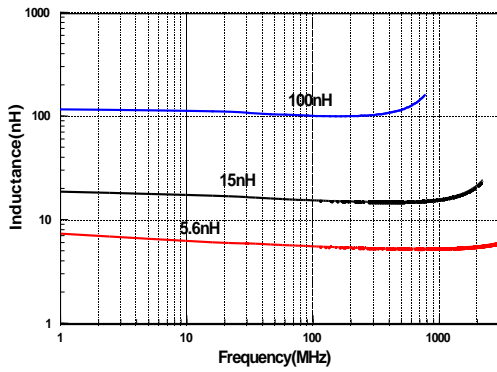
※ □: Please specify the inductance tolerance. For L≤6.2nH, choose B=±0.1nH, C=±0.2nH or S=±0.3nH; For L>6.2nH, choose H=±3%, J=±5% or K=±10%.

※: Please refer to "Measurement Notice For RF Inductors".

TYPICAL ELECTRICAL CHARACTERISTICS

MLI1005H Series

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics

