

MLI1608H 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

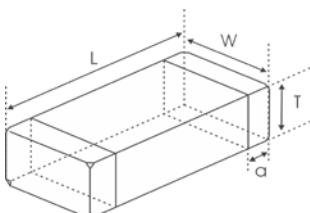
- RF circuit in telecommunication and other equipments

Explanation of Part Number

<u>MLI</u> ①	<u>1608</u> ②	<u>H</u> ③	<u>10N</u> ④	<u>J</u> ⑤	<u>T</u> ⑥	<u>F</u> ⑦																																																
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SHAPE AND DIMENSIONS

Unit: mm [inch]



Type	L	W	T	a
MLI1608H [0603]	1.6±0.15 [.063±.006]	0.8±0.15 [.031±.006]	0.8±0.15 [.031±.006]	0.3±0.2 [.012±.008]
	1.65±0.15 [.065±.006]			

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
MLI1608H-1N0□TF	1.0	8	100	13	70	80	10000	0.05	500
MLI1608H-1N2□TF	1.2	8	100	13	60	70	10000	0.05	500
MLI1608H-1N5□TF	1.5	8	100	13	47	68	6000	0.10	500
MLI1608H-1N8□TF	1.8	8	100	13	45	61	6000	0.10	500
MLI1608H-2N2□TF	2.2	8	100	13	45	60	6000	0.10	500
MLI1608H-2N7□TF	2.7	10	100	13	44	55	6000	0.12	500
MLI1608H-3N3□TF	3.3	10	100	13	43	50	6000	0.15	500
MLI1608H-3N9□TF	3.9	10	100	13	43	50	6000	0.16	500
MLI1608H-4N7□TF	4.7	10	100	13	43	50	6000	0.20	500
MLI1608H-5N6□TF	5.6	10	100	14	42	48	5000	0.25	500
MLI1608H-6N8□TF	6.8	10	100	14	43	50	5000	0.30	500
MLI1608H-8N2□TF	8.2	10	100	14	43	48	4500	0.35	500
MLI1608H-10N□TF	10	12	100	15	45	50	3500	0.40	300
MLI1608H-12N□TF	12	12	100	18	48	50	3000	0.45	300
MLI1608H-15N□TF	15	12	100	18	48	50	2300	0.50	300
MLI1608H-18N□TF	18	12	100	16	48	51	2200	0.55	300
MLI1608H-22N□TF	22	12	100	16	45	48	2000	0.60	300
MLI1608H-27N□TF	27	12	100	16	45	45	1700	0.65	300
MLI1608H-33N□TF	33	12	100	16	45	41	1500	0.70	300
MLI1608H-39N□TF	39	12	100	17	40	48	1400	0.70	300
MLI1608H-47N□TF	47	12	100	17	35	35	1200	0.70	300
MLI1608H-56N□TF	56	12	100	17	35	30	1100	0.75	300
MLI1608H-68N□TF	68	12	100	17	30	20	900	0.85	300
MLI1608H-82N□TF	82	8	100	15	22	-	800	1.00	300
MLI1608H-R10□TF	100	8	100	15	16	-	700	1.20	300
MLI1608H-R12□TF*	120	8	50	15	-	-	600	1.40	200
MLI1608H-R15□TF*	150	8	50	15	-	-	500	1.60	200
MLI1608H-R18□TF*	180	8	50	15	-	-	400	1.90	200
MLI1608H-R22□TF*	220	8	50	15	-	-	350	2.40	200
MLI1608H-R27□TF*	270	8	50	16	-	-	350	2.60	150
MLI1608H-R33□TF*	330	8	50	16	-	-	350	2.80	150
MLI1608H-R39□TF*	390	8	50	16	-	-	300	3.20	150
MLI1608H-R43□TF*	430	8	50	16	-	-	280	3.40	150
MLI1608H-R47□TF*	470	8	50	15	-	-	250	3.60	150
MLI1608H-R56□TF*	560	8	50	15	-	-	250	4.00	100
MLI1608H-R68□TF*	680	8	50	15	-	-	250	4.50	100

※□: Please specify the inductance tolerance. For $L \leq 6.2\text{nH}$, choose $B = \pm 0.1\text{nH}$, $C = \pm 0.2\text{nH}$ or $S = \pm 0.3\text{nH}$; For $L > 6.2\text{nH}$, choose $H = \pm 3\%$, $J = \pm 5\%$ or $K = \pm 10\%$.

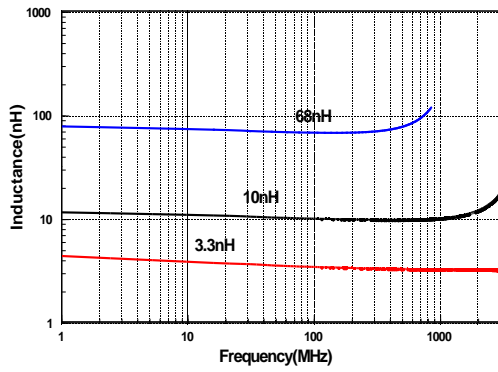
※*: The length: $1.65 \pm 0.15\text{mm}$, for others: $1.60 \pm 0.15\text{mm}$

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

TYPICAL ELECTRICAL CHARACTERISTICS

MLI1608H Series

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics

