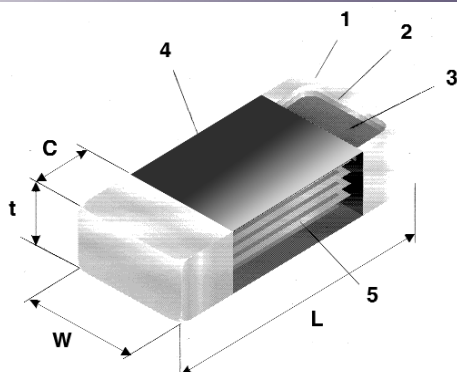


MULTILAYER CERAMIC INDUCTORS MHL (MHI)



STRUCTURE

- 1 Solder plating
- 2 Diffusion barrier
- 3 Silver metallisation
- 4 Ceramic
- 5 Electrodes



IDENTIFICATION

TYPE	BODY COLOR	MARKING
MHL 1E	Brown	None
MHL 1J	White with one black stripe	
MHL 2A	White	

Products with Pb-free terminations
meet RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

Old Part No.

New Part No.
(Pb-free)

MHI	0805	C		J	TE	68N	
MHL	2A	C	T		TE	68N	J
PRODUCT CODE	SIZE	PERMEABILITY CODE	TERMINATION SURFACE MATERIAL	INDUCTANCE TOLERANCE	TAPING*	NOMINAL INDUCTANCE	INDUCTANCE TOLERANCE
	1E = 0402 1J = 0603 2A = 0805	C, T	T: Sn L: Sn/Pb		TP, TD, TE, TEB *Please see "PACKAGING"	3 digits	S ($\pm 0.3\text{nH}$) J ($\pm 5\%$)

FEATURES

- Monolithic structure provides high reliability in wide temperature and humidity range
- Anti-leaching nickel barrier terminations
- Wide range of electrical properties
- High quality ceramic material and unique manufacturing process provides high Q at high frequency
- Suitable for high frequency equipment including cellular phones, pagers, radar detectors, computer communications etc.
- Operating temperature range: $-55^{\circ}\text{C} \dots +125^{\circ}\text{C}$
- Suitable for reflow and wave soldering
- Lab kit available

DIMENSIONS (mm)

SIZE	L	W	t	c
0402 (1E)	1.0 ± 0.10	0.50 ± 0.10	0.50 ± 0.10	0.25 ± 0.10
0603 (1J)	1.6 ± 0.15	0.80 ± 0.15	0.80 ± 0.15	0.30 ± 0.20
0805 (2A)	2.0 ± 0.20	1.25 ± 0.20	$0.90 \pm 0.30 \leq 39 \text{ nH}$ $1.0 \pm 0.30 > 39 \text{ nH}$	0.50 ± 0.30

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MULTILAYER, CERAMIC INDUCTORS, MHL (MHI)

RATING*

TYPE	NOMINAL INDUCTANCE	INDUCTANCE TOLERANCE	QUALITY FACTOR			SELF-RESONANT FREQUENCY (TYP.)	DC RESISTANCE (MAX.)	ALLOWABLE DC CURRENT (MAX.)
			100 MHz (MIN.)	100 MHz (TYP.)	800 MHz (TYP.)			
MHL 1E C TP 1N0 S	1.0 nH	S(±0.3nH)	8	11	34	>15000 MHz	0.12 Ω	300 mA
MHL 1E C TP 1N2 S	1.2 nH							
MHL 1E C TP 1N5 S	1.5 nH							
MHL 1E C TP 1N8 S	1.8 nH							
MHL 1E C TP 2N2 S	2.2 nH							
MHL 1E C TP 2N7 S	2.7 nH							
MHL 1E C TP 3N3 S	3.3 nH							
MHL 1E C TP 3N9 S	3.9 nH							
MHL 1E C TP 4N7 S	4.7 nH							
MHL 1E C TP 5N6 S	5.6 nH							
MHL 1E C TP 6N8 J	6.8 nH	J(±5%)	8	11	28	14000 MHz	0.13 Ω	250 mA
MHL 1E C TP 8N2 J	8.2 nH							
MHL 1E C TP 10N J	10 nH							
MHL 1E C TP 12N J	12 nH							
MHL 1E C TP 15N J	15 nH							
MHL 1E C TP 18N J	18 nH							
MHL 1E C TP 22N J	22 nH							
MHL 1E C TP 27N J	27 nH							
MHL 1E C TP 33N J	33 nH							
MHL 1E C TP 39N J	39 nH							
MHL 1E C TP 47N J	47 nH	J(±5%)	8	11	28	12000 MHz	0.14 Ω	200 mA
MHL 1E C TP 56N J	56 nH							
MHL 1E C TP 68N J	68 nH							
MHL 1E C TP 82N J	82 nH							
MHL 1E C TP R10 J	100 nH							
MHL 1J C TD 1N2 S	1.2 nH	S(±0.3nH)	8	12	40	>17000 MHz	0.10 Ω	300 mA
MHL 1J C TD 1N5 S	1.5 nH							
MHL 1J C TD 1N8 S	1.8 nH							
MHL 1J C TD 2N2 S	2.2 nH							
MHL 1J C TD 2N7 S	2.7 nH							
MHL 1J C TD 3N3 S	3.3 nH							
MHL 1J C TD 3N9 S	3.9 nH							
MHL 1J C TD 4N7 S	4.7 nH							
MHL 1J C TD 5N6 S	5.6 nH							
MHL 1J C TD 6N8 J	6.8 nH							
MHL 1J C TD 8N2 J	8.2 nH	J(±5%)	8	13	41	6500 MHz	0.12 Ω	300 mA
MHL 1J C TD 10N J	10.0 nH							
MHL 1J C TD 12N J	12.0 nH							
MHL 1J C TD 15N J	15.0 nH							
MHL 1J C TD 18N J	18.0 nH							
MHL 1J C TD 22N J	22.0 nH							
MHL 1J C TD 27N J	27.0 nH							
MHL 1J C TD 27N J	27.0 nH							
MHL 1J C TD 33N J	33.0 nH							
MHL 1J C TD 39N J	39.0 nH							
MHL 1J C TD 39N J	39.0 nH	J(±5%)	10	12	44	1600 MHz	0.55 Ω	300 mA
MHL 1J C TD 47N J	47.0 nH							
MHL 1J C TD 56N J	56.0 nH							
MHL 1J C TD 68N J	68.0 nH							
MHL 1J C TD 82N J	82.0 nH							
MHL 1J C TD R10 J	100.0 nH							
MHL 1J C TD R12 J	120.0 nH							
MHL 1J C TD R15 J	150.0 nH							
MHL 1J C TD R18 J	180.0 nH							
MHL 1J C TD R22 J	220.0 nH							
MHL 2A C TE 1N5 S	1.5 nH	S(±0.3nH)	8	18	55	> 6000 MHz	0.10 Ω	300 mA
MHL 2A C TE 1N8 S	1.8 nH							
MHL 2A C TE 2N2 S	2.2 nH							
MHL 2A C TE 2N7 S	2.7 nH							
MHL 2A C TE 3N3 S	3.3 nH							
MHL 2A C TE 3N9 S	3.9 nH							
MHL 2A C TE 4N7 S	4.7 nH							
MHL 2A C TE 5N6 S	5.6 nH							
MHL 2A C TE 6N8 J	6.8 nH							
MHL 2A C TE 8N2 J	8.2 nH							
MHL 2A C TE 10N J	10.0 nH	J(±5%)	15	22	60	3100 MHz	0.30 Ω	300 mA
MHL 2A C TE 12N J	12.0 nH							
MHL 2A C TE 15N J	15.0 nH							
MHL 2A C TE 18N J	18.0 nH							
MHL 2A C TE 22N J	22.0 nH							
MHL 2A C TE 27N J	27.0 nH							
MHL 2A C TE 33N J	33.0 nH							
MHL 2A C TE 39N J	39.0 nH							
MHL 2A C TE 47N J	47.0 nH							
MHL 2A C TE 56N J	56.0 nH							
MHL 2A C TE 68N J	68.0 nH	J(±5%)	18	23	43	1200 MHz	0.70 Ω	300 mA
MHL 2A C TE 82N J	82.0 nH							
MHL 2A C TE R10 J	100.0 nH							
MHL 2A C TE R12 J	120.0 nH							
MHL 2A C TE R15 J	150.0 nH							
MHL 2A C TE R18 J	180.0 nH							
MHL 2A C TE R22 J	220.0 nH							
MHL 2A C TE R27 J	270.0 nH							
MHL 2A C TE R33 J	330.0 nH							

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INDUCTORS

*Operating temperature range: -55°C...+125°C

Enter the code for termination surface material (T, L)