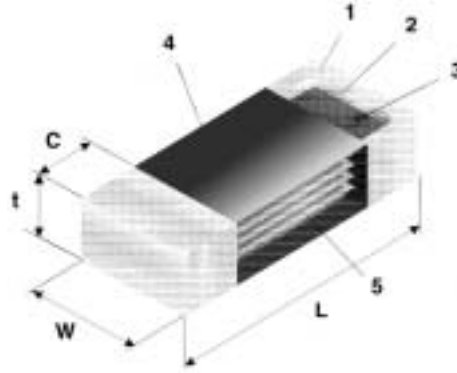


**MULTILAYER  
CERAMIC INDUCTORS  
MHI**



**STRUCTURE**

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



**IDENTIFICATION**

TYPE	COATING COLOR	MARKING
MHI	Black	None

**TYPE DESIGNATION (HOW TO ORDER)**

Old Part No.	<b>MHI</b>	<b>0805</b>	<b>C</b>		<b>J</b>	<b>TE</b>	<b>68N</b>	
New Part No.	<b>MHI</b>	<b>0805</b>	<b>C</b>	<b>L</b>		<b>TE</b>	<b>68N</b>	<b>J</b>
	PRODUCT CODE	SIZE	PERMEABILITY CODE	TERMINATION SURFACE MATERIAL	INDUCTANCE TOLERANCE	TAPING*	NOMINAL INDUCTANCE	INDUCTANCE TOLERANCE
			C	L: Sn/Pb T: Sn		Please see "PACKAGING"	3 digits	M(±20%), K(±10%), J(±5%), T(±3%), S(±0.3nH)

**FEATURES**

- Monolithic structure provides high reliability in wide temperature and humidity range
- Anti-leaching nickel barrier terminations
- 90/10 solder plated 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: -40° C ... +125° C
- Suitable for reflow and wave soldering
- Lab kit available

**DIMENSIONS (mm)**

SIZE	L	W	t	c
<b>0402</b>	1.0 ± 0.10	0.50 ± 0.10	0.50 ± 0.10	0.25 ± 0.10
<b>0603</b>	1.6 ± 0.15	0.80 ± 0.15	0.80 ± 0.15	0.30 ± 0.20
<b>0805</b>	2.0 ± 0.20	1.25 ± 0.20	0.90 ± 0.30	0.50 ± 0.30

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## MULTILAYER, CERAMIC INDUCTORS, MHI - SERIES

### RATING

TYPE	NOMINAL INDUCTANCE	INDUCTANCE TOLERANCE	QUALITY FACTOR			SELF-RESONANT FREQUENCY (MIN.)	DC RESISTANCE (MAX.)	ALLOWABLE DC CURRENT (MAX.)
			100 MHz (MIN.)	100 MHz (TYP.)	800 MHz (TYP.)			
MHI 0402 C TD 1N0	1.0 nH	S(±0.3nH)	8	11	34	>4000 MHz	0.12 Ω	300 mA
MHI 0402 C TD 1N2	1.2 nH							
MHI 0402 C TD 1N5	1.5 nH							
MHI 0402 C TD 1N8	1.8 nH							
MHI 0402 C TD 2N2	2.2 nH							
MHI 0402 C TD 2N7	2.7 nH	S(±0.3nH) K(±10%)	10	28	29	>3900 MHz	0.13 Ω	250 mA
MHI 0402 C TD 3N3	3.3 nH							
MHI 0402 C TD 3N9	3.9 nH							
MHI 0402 C TD 4N7	4.7 nH							
MHI 0402 C TD 5N6	5.6 nH							
MHI 0402 C TD 6N8	6.8 nH	J(=5%) K(±10%)	11	27	30	>2700 MHz	0.14 Ω	200 mA
MHI 0402 C TD 8N2	8.2 nH							
MHI 0402 C TD 10N	10 nH							
MHI 0402 C TD 12N	12 nH							
MHI 0402 C TD 15N	15 nH							
MHI 0402 C TD 18N	18 nH	J(=5%) K(±10%)	11	25	31	>2300 MHz	0.16 Ω	150 mA
MHI 0402 C TD 22N	22 nH							
MHI 0402 C TD 27N	27 nH							
MHI 0402 C TD 33N	33 nH							
MHI 0402 C TD 39N	39 nH							
MHI 0402 C TD 47N	47 nH	J(=5%) K(±10%)	9	3	23	>2100 MHz	0.17 Ω	100 mA
MHI 0402 C TD 56N	56 nH							
MHI 0402 C TD 68N	68 nH							
MHI 0402 C TD 82N	82 nH							
MHI 0402 C TD R10	100 nH							
MHI 0603 C TE 1N2	1.2 nH	S(±0.3nH)	8	12	40	>6000 MHz	0.10 Ω	300 mA
MHI 0603 C TE 1N5	1.5 nH							
MHI 0603 C TE 1N8	1.8 nH							
MHI 0603 C TE 2N2	2.2 nH							
MHI 0603 C TE 2N7	2.7 nH							
MHI 0603 C TE 3N3	3.3 nH	S(±0.3nH) K(±10%)	14	41	42	5700 MHz	0.12 Ω	250 mA
MHI 0603 C TE 3N9	3.9 nH							
MHI 0603 C TE 4N7	4.7 nH							
MHI 0603 C TE 5N6	5.6 nH							
MHI 0603 C TE 6N8	6.8 nH							
MHI 0603 C TE 8N2	8.2 nH	J(+5%) K(±10%)	15	43	43	4350 MHz	0.18 Ω	150 mA
MHI 0603 C TE 10N	10.0 nH							
MHI 0603 C TE 12N	12.0 nH							
MHI 0603 C TE 15N	15.0 nH							
MHI 0603 C TE 18N	18.0 nH							
MHI 0603 C TE 22N	22.0 nH	T(±3%) J(±5%) K(±10%)	16	44	44	3750 MHz	0.22 Ω	100 mA
MHI 0603 C TE 27N	27.0 nH							
MHI 0603 C TE 33N	33.0 nH							
MHI 0603 C TE 39N	39.0 nH							
MHI 0603 C TE 47N	47.0 nH							
MHI 0805 C TE 1N5	1.5 nH	S(±0.3nH)	10	18	60	>6000 MHz	0.10 Ω	300 mA
MHI 0805 C TE 1N8	1.8 nH							
MHI 0805 C TE 2N2	2.2 nH							
MHI 0805 C TE 2N7	2.7 nH							
MHI 0805 C TE 3N3	3.3 nH							
MHI 0805 C TE 3N9	3.9 nH	S(±0.3nH) K(±10%) M(±20%)	20	54	60	5400 MHz	0.15 Ω	250 mA
MHI 0805 C TE 4N7	4.7 nH							
MHI 0805 C TE 5N6	5.6 nH							
MHI 0805 C TE 6N8	6.8 nH							
MHI 0805 C TE 8N2	8.2 nH							
MHI 0805 C TE 10N	10.0 nH	J(±5%) K(±10%) M(±20%)	22	60	63	4000 MHz	0.23 Ω	150 mA
MHI 0805 C TE 12N	12.0 nH							
MHI 0805 C TE 15N	15.0 nH							
MHI 0805 C TE 18N	18.0 nH							
MHI 0805 C TE 22N	22.0 nH							
MHI 0805 C TE 27N	27.0 nH	J(±5%) K(±10%) M(±20%)	23	58	55	3000 MHz	0.28 Ω	100 mA
MHI 0805 C TE 33N	33.0 nH							
MHI 0805 C TE 39N	39.0 nH							
MHI 0805 C TE 47N	47.0 nH							
MHI 0805 C TE 56N	56.0 nH							
MHI 0805 C TE 68N	68.0 nH	J(±5%) K(±10%) M(±20%)	22	30	39	2500 MHz	0.30 Ω	100 mA
MHI 0805 C TE 82N	82.0 nH							
MHI 0805 C TE R10	100 nH							
MHI 0805 C TE 10N	10.0 nH							
MHI 0805 C TE 12N	12.0 nH							
MHI 0805 C TE 15N	15.0 nH	J(±5%) K(±10%) M(±20%)	23	55	47	2450 MHz	0.35 Ω	100 mA
MHI 0805 C TE 18N	18.0 nH							
MHI 0805 C TE 22N	22.0 nH							
MHI 0805 C TE 27N	27.0 nH							
MHI 0805 C TE 33N	33.0 nH							
MHI 0805 C TE 39N	39.0 nH	J(±5%) K(±10%) M(±20%)	23	43	43	1750 MHz	0.45 Ω	100 mA
MHI 0805 C TE 47N	47.0 nH							
MHI 0805 C TE 56N	56.0 nH							
MHI 0805 C TE 68N	68.0 nH							
MHI 0805 C TE 82N	82.0 nH							
MHI 0805 C TE R10	100 nH	J(±5%) K(±10%) M(±20%)	22	---	30	1000 MHz	0.80 Ω	100 mA
MHI 0805 C TE 10N	10.0 nH							
MHI 0805 C TE 12N	12.0 nH							
MHI 0805 C TE 15N	15.0 nH							
MHI 0805 C TE 18N	18.0 nH							
MHI 0805 C TE 22N	22.0 nH	J(±5%) K(±10%) M(±20%)	23	55	47	1700 MHz	0.50 Ω	100 mA
MHI 0805 C TE 27N	27.0 nH							
MHI 0805 C TE 33N	33.0 nH							
MHI 0805 C TE 39N	39.0 nH							
MHI 0805 C TE 47N	47.0 nH							
MHI 0805 C TE 56N	56.0 nH	J(±5%) K(±10%) M(±20%)	23	55	47	1550 MHz	0.55 Ω	100 mA
MHI 0805 C TE 68N	68.0 nH							
MHI 0805 C TE 82N	82.0 nH							
MHI 0805 C TE R10	100 nH							
MHI 0805 C TE 10N	10.0 nH							
MHI 0805 C TE 12N	12.0 nH	J(±5%) K(±10%) M(±20%)	23	55	47	1350 MHz	0.60 Ω	100 mA
MHI 0805 C TE 15N	15.0 nH							
MHI 0805 C TE 18N	18.0 nH							
MHI 0805 C TE 22N	22.0 nH							
MHI 0805 C TE 27N	27.0 nH							
MHI 0805 C TE 33N	33.0 nH	J(±5%) K(±10%) M(±20%)	23	55	47	1200 MHz	0.70 Ω	100 mA
MHI 0805 C TE 39N	39.0 nH							
MHI 0805 C TE 47N	47.0 nH							
MHI 0805 C TE 56N	56.0 nH							
MHI 0805 C TE 68N	68.0 nH							
MHI 0805 C TE 82N	82.0 nH	J(±5%) K(±10%) M(±20%)	22	---	39	1150 MHz	0.75 Ω	100 mA
MHI 0805 C TE R10	100 nH							
MHI 0805 C TE 10N	10.0 nH							
MHI 0805 C TE 12N	12.0 nH							
MHI 0805 C TE 15N	15.0 nH							
MHI 0805 C TE 18N	18.0 nH	J(±5%) K(±10%) M(±20%)	22	---	30	850 MHz	0.90 Ω	100 mA
MHI 0805 C TE 22N	22.0 nH							
MHI 0805 C TE 27N	27.0 nH							
MHI 0805 C TE 33N	33.0 nH							
MHI 0805 C TE 39N	39.0 nH							
MHI 0805 C TE 47N	47.0 nH	J(±5%) K(±10%) M(±20%)	22	---	30	730 MHz	0.90 Ω	100 mA
MHI 0805 C TE 56N	56.0 nH							
MHI 0805 C TE 68N	68.0 nH							
MHI 0805 C TE 82N	82.0 nH							
MHI 0805 C TE R10	100 nH							

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