

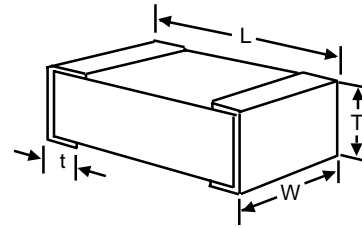
MULTILAYER CHIP INDUCTORS

HIGH FREQUENCY PERFORMANCE

MHI SERIES

FEATURES

- ❑ Multilayer structure ensures outstanding reliability for today's high frequency applications
- ❑ Advanced monolithic construction especially suited for high frequency applications
- ❑ Excellent Q and SRF characteristics
- ❑ Operating temperature range: -25°C to +105°C
- ❑ Standard tolerances: ±5%, 10%, 20%



RCD Type MHI-0201 is the world's smallest chip inductor!

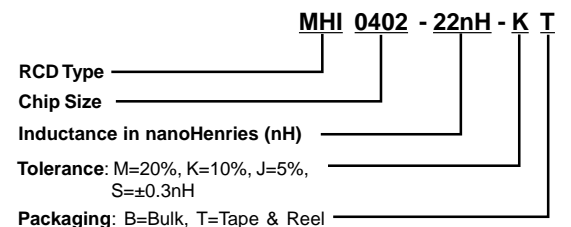
Ind. (nH)	Test Freq. (MHz)	MHI 0201*				MHI 0402				MHI 0603				MHI 0805			
		Q Min.	SRF Min. (MHz)	DCR Max. (Ohms)	Rated Current (mA)	Q Min.	SRF Min. (MHz)	DCR Max. (Ohms)	Rated Current (mA)	Q Min.	SRF Min. (MHz)	DCR Max. (Ohms)	Rated Current (mA)	Q Min.	SRF Min. (MHz)	DCR Max. (Ohms)	Rated Current (mA)
0.6	100	11	>6,000	0.08	420	-	-	-	-	-	-	-	-	-	-	-	-
0.8	100	11	>6,000	0.09	410	-	-	-	-	-	-	-	-	-	-	-	-
1.0	100	11	>6,000	0.10	400	9	>12,000	.12	300	-	-	-	-	-	-	-	-
1.2	100	11	>6,000	0.13	280	9	>12,000	.12	300	-	-	-	-	-	-	-	-
1.5	100	11	>6,000	0.16	280	10	>12,000	.13	300	12	>6,000	0.10	500	10	>6,000	0.10	500
1.8	100	11	>6,000	0.16	275	10	10,000	.14	300	12	>6,000	0.10	500	10	>6,000	0.10	500
2.2	100	11	>6,000	0.18	220	10	9,000	.16	300	12	>6,000	0.10	500	11	>6,000	0.10	500
2.7	100	11	>6,000	0.21	220	10	8,000	.17	300	13	>6,000	0.10	500	12	>6,000	0.10	500
3.3	100	11	>6,000	0.30	190	10	7,000	.19	300	14	5,700	0.12	500	13	>6,000	0.13	500
3.9	100	11	>6,000	0.45	170	10	6,000	.22	300	13	5,600	0.14	500	13	5,400	0.15	500
4.7	100	11	>6,000	0.55	160	10	5,000	.24	300	13	4,800	0.16	500	14	4,500	0.20	500
5.6	100	11	>6,000	0.68	140	10	4,700	.27	300	14	4,350	0.18	500	14	4,000	0.23	500
6.8	100	11	>6,000	0.75	130	10	4,500	.32	250	14	3,750	0.22	500	15	3,650	0.25	500
8.2	100	11	5,500	0.86	110	10	3,900	.37	250	14	3,300	0.24	500	15	3,000	0.28	500
10	100	11	4,500	1.10	100	10	3,300	.42	250	14	2,850	0.26	300	15	2,500	0.30	500
12	100	11	3,700	1.25	90	10	2,900	.50	250	15	2,700	0.28	300	16	2,450	0.35	300
15	100	11	3,300	1.50	90	10	2,500	.55	250	15	2,400	0.32	300	16	2,200	0.40	300
18	100	-	-	-	-	10	2,100	.65	200	15	2,050	0.35	300	17	1,750	0.45	300
22	100	-	-	-	-	10	1,800	.80	200	16	1,850	0.40	300	18	1,700	0.50	300
27	100	-	-	-	-	10	1,300	.90	200	16	1,750	0.45	300	17	1,550	0.55	300
33	100	-	-	-	-	-	-	-	-	16	1,500	0.55	300	18	1,350	0.60	300
39	100	-	-	-	-	-	-	-	-	16	1,350	0.60	300	18	1,300	0.65	300
47	100	-	-	-	-	-	-	-	-	16	1,200	0.70	300	18	1,200	0.70	300
56	100	-	-	-	-	-	-	-	-	16	1,150	0.75	300	19	1,150	0.75	300
68	100	-	-	-	-	-	-	-	-	16	1,050	0.85	300	19	1,000	0.80	300
82	100	-	-	-	-	-	-	-	-	16	1,000	0.95	300	19	850	0.90	300
100	100	-	-	-	-	-	-	-	-	16	925	1.00	300	23	700	0.90	300
120	100	-	-	-	-	-	-	-	-	-	-	-	-	23	650	0.95	300
150	100	-	-	-	-	-	-	-	-	-	-	-	-	22	550	1.00	300
180	100	-	-	-	-	-	-	-	-	-	-	-	-	21	500	1.10	300
220	100	-	-	-	-	-	-	-	-	-	-	-	-	20	430	1.20	300
270	50	-	-	-	-	-	-	-	-	-	-	-	-	18	650	0.95	300
330	50	-	-	-	-	-	-	-	-	-	-	-	-	18	550	1.00	300
390	50	-	-	-	-	-	-	-	-	-	-	-	-	18	500	1.10	300
470	50	-	-	-	-	-	-	-	-	-	-	-	-	16	430	1.20	300

* 0201 chips are single layer construction utilizing RCD's proprietary film technology.

Type MHI	L (Length)	W (Width)	T (Thick)	t (Term. Thickness)
0201	.022±.003 [0.55±.075]	.011±.002 [0.28±.05]	.010±.002 [0.25±.05]	.006±.002 [0.15±.05]
0402	.039±.004 [1.00±.10]	.020±.002 [0.5±.05]	.020±.002 [0.5±.05]	.010±.004 [0.25±.10]
0603	.063±.006 [1.6±.15]	.031±.006 [0.8±.15]	.031±.006 [0.8±.15]	.010±.004 [0.25±.10]
0805	.078±.007 [2.0±.2]	.049±.007 [1.25±.2]	.033±.007 ¹ [0.85±.2]	.019±.007 [0.5±.2]

¹ Thickness of .049"±.007 is optional by factory unless requested otherwise.

P/N DESIGNATION:



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FAxxx specifications subject to change without notice