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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Multilayer High Frequency Inductor

CIH02T Series (0402/ EIA 01005)

APPLICATION

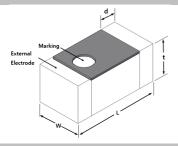
Mobile communication systems, noise suppression at high frequency and Impedance matching.

FEATURES

- High Q value in high frequency range
- Small size(0.4×0.2×0.2)
- Monolithic structure for high reliability
- Do not contain lead and support lead-free soldering.
- · RoHS compliant



DIMENSION



Туре	Dimension [mm]								
Type	L	W	t	d					
02	0.4±0.02	0.2±0.02	0.2±0.02	0.1±0.04					

DESCRIPTION

		0/14: \	Q Typical Frequency[Hz]					DC	Rated	SRF
Part No.	Inductance	Q(Min.)					Ī.,.	Resistance	current	[GHz]
	(nH)@100MHz	100MHz	500M	800M	1.8G	2.0G	2.4G	[Ω]max.	(mA)max.	min.
CIH02T0N2□	0.2nH±0.1nH,0.2nH	-	11	13	23	24	27	0.1	350	10.0
CIH02T0N3□	0.3nH±0.1nH,0.2nH	-	11	13	23	24	27	0.2	350	10.0
CIH02T0N4□	0.4nH±0.1nH,0.2nH	-	12	14	24	25	29	0.2	350	10.0
CIH02T0N5□	0.5nH±0.1nH,0.2nH	-	12	14	24	25	29	0.2	350	10.0
CIH02T0N6□	0.6nH±0.1nH,0.2nH	-	12	15	26	27	31	0.3	320	10.0
CIH02T0N7□	0.7nH±0.1nH,0.2nH	-	12	15	26	27	31	0.4	320	10.0
CIH02T0N8□	0.8nH±0.1nH,0.2nH	-	12	14	27	28	32	0.4	320	10.0
CIH02T0N9□	0.9nH±0.1nH,0.2nH	-	11	13	22	23	27	0.4	320	10.0
CIH02T1N0□	1.0nH±0.1nH,0.2nH,0.3nH	2	11	13	22	23	27	0.4	250	10.0
CIH02T1N1□	1.1nH±0.1nH,0.2nH,0.3nH	2	11	14	23	24	28	0.5	250	10.0
CIH02T1N2□	1.2nH±0.1nH,0.2nH,0.3nH	2	11	14	24	25	29	0.5	250	10.0
CIH02T1N3□	1.3nH±0.1nH,0.2nH,0.3nH	2	11	14	24	25	29	0.6	250	10.0
CIH02T1N4□	1.4nH±0.1nH,0.2nH,0.3nH	2	10	13	22	23	26	0.6	250	10.0
CIH02T1N5□	1.5nH±0.1nH,0.2nH,0.3nH	2	10	13	22	23	26	0.6	220	10.0
CIH02T1N6□	1.6nH±0.1nH,0.2nH,0.3nH	2	10	13	22	23	26	0.6	220	10.0
CIH02T1N7□	1.7nH±0.1nH,0.2nH,0.3nH	2	10	13	23	24	27	0.6	200	10.0
CIH02T1N8□	1.8nH±0.1nH,0.2nH,0.3nH	2	11	14	23	25	28	0.6	200	10.0
CIH02T1N9□	1.9nH±0.1nH,0.2nH,0.3nH	2	10	14	22	24	26	0.6	200	9.0
CIH02T2N0□	2.0nH±0.1nH,0.2nH,0.3nH	2	10	13	21	23	25	0.6	200	9.0



ELECTRO-MECHANICS Ver. 201308

	Inductance	Q(Min.)	Q Typical Frequency[Hz]				DC	Rated	SRF	
Part No.	(nH)	100MHz	500M	800M	1.8G	2.0G	2.4G	Resistance $[\Omega]$ max.	current (mA)max.	[GHz] min.
CIH02T2N1□	2.1nH±0.1nH,0.2nH,0.3nH	2	10	13	21	23	25	0.7	200	8.0
CIH02T2N2□	2.2nH±0.1nH,0.2nH,0.3nH	2	10	13	21	23	26	0.8	200	8.0
CIH02T2N3□	2.3nH±0.1nH,0.2nH,0.3nH	2	10	13	21	23	25	0.8	200	7.0
CIH02T2N4□	2.4nH±0.1nH,0.2nH,0.3nH	2	10	13	21	23	25	0.8	200	7.0
CIH02T2N5□	2.5nH±0.1nH,0.2nH,0.3nH	2	10	13	21	22	25	0.8	200	7.0
CIH02T2N6□	2.6nH±0.1nH,0.2nH,0.3nH	2	11	13	22	23	26	0.8	200	7.0
CIH02T2N7□	2.7nH±0.1nH,0.2nH,0.3nH	2	11	13	22	23	26	0.8	200	7.0
CIH02T2N8□	2.8nH±0.1nH,0.2nH,0.3nH	2	10	13	20	22	24	0.8	200	7.0
CIH02T2N9□	2.9nH±0.1nH,0.2nH,0.3nH	2	10	13	20	21	23	0.8	200	7.0
CIH02T3N0□	3.0nH±0.1nH,0.2nH,0.3nH	2	10	13	20	21	24	0.8	200	7.0
CIH02T3N1□	3.1nH±0.1nH,0.2nH,0.3nH	2	10	13	20	21	24	0.9	200	7.0
CIH02T3N2□	3.2nH±0.1nH,0.2nH,0.3nH	2	10	13	21	23	25	1.0	200	7.0
CIH02T3N3□	3.3nH±0.1nH,0.2nH,0.3nH	2	10	13	21	23	25	1.1	180	7.0
CIH02T3N4□	3.4nH±0.1nH,0.2nH,0.3nH	2	10	12	22	24	25	1.1	180	6.5
CIH02T3N5□	3.5nH±0.1nH,0.2nH,0.3nH	2	11	13	22	24	25	1.1	180	6.0
CIH02T3N6□	3.6nH±0.1nH,0.2nH,0.3nH	2	10	14	22	24	26	1.1	180	6.0
CIH02T3N7□	3.7nH±0.1nH,0.2nH,0.3nH	2	10	12	20	22	25	1.1	180	6.0
CIH02T3N8□	3.8nH±0.1nH,0.2nH,0.3nH	2	10	13	20	21	23	1.1	180	6.0
CIH02T3N9□	3.9nH±0.1nH,0.2nH,0.3nH	2	10	12	20	22	23	1.2	180	6.0
CIH02T4N0□	4.0nH±0.1nH,0.2nH,0.3nH	2	10	13	20	21	24	1.2	180	6.0
CIH02T4N3□	4.3nH±0.3nH,3%,5%	2	11	13	21	22	24	1.2	180	6.0
CIH02T4N7□	4.7nH±0.3nH,3%,5%	2	10	13	21	22	25	1.3	160	6.0
CIH02T5N1□	5.1nH±0.3nH,3%,5%	2	11	14	22	23	25	1.4	160	6.0
CIH02T5N6□	5.6nH±0.3nH,3%,5%	2	10	13	20	22	25	1.5	140	6.0
CIH02T6N2□	6.2nH±0.3nH,3%,5%	2	10	14	21	23	23	1.5	140	5.5
CIH02T6N8□	6.8nH±3%,5%	2	11	13	21	22	22	1.6	140	5.5
CIH02T7N5□	7.5nH±3%,5%	2	10	14	21	22	24	1.7	140	5.0
CIH02T8N2□	8.2nH±3%,5%	2	11	14	21	22	24	1.8	140	4.5
CIH02T9N1□	9.1nH±3%,5%	2	11	14	20	21	23	1.8	140	4.0
CIH02T10N□	10nH±3%,5%	3	11	14	21	22	23	2.1	140	4.0
CIH02T12N	12nH±3%,5%	3	10	13	17	18	19	2.4	140	3.5
CIH02T15N□ CIH02T18N□	15nH±3%,5% 18nH±3%,5%	3	11	13 12	17 17	18 16	18 16	2.6	140	3.0 2.5
OITUZ I ION	1011日±3%,5%	J	10	12	17	10	סו	2.8	140	2.5

[#] Tolerance (B :±0.1nH, C :±0.2nH, S :±0.3nH, H :±3%, J :±5%)

Measurement : E4991A + 16196DResidual Inductance : 0.11nH



PRODUCT IDENTIFICATION

CI	_H_	02	T 1N0		S	N	C	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	

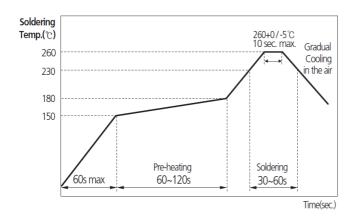
(2) H:High frequency type

(4) Material code

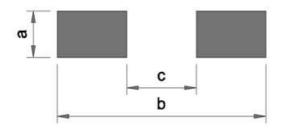
- (1) Chip Inductor
- (3) Dimension
- (5) Inductance(1N0:1.0nH, 18N:18nH)
- (6) Tolerance(S:±0.3nH, J:±5%)
- (7) Thickness option(N:Standard, A:Thinner than standard, B:Thicker than standard)
- (8) Packaging(C:paper tape, E:embossed tape)

RECOMMENDED SOLDERING CONDITION

REFLOW SOLDERING



RECOMMENDED LAND PATTERN

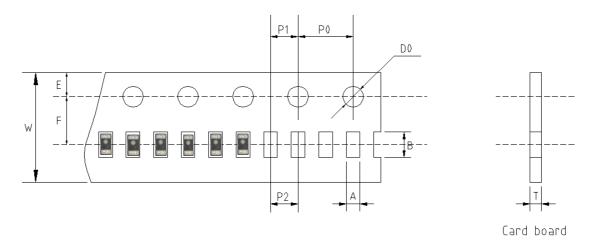


Unit: mm

Series	Chip size	а	b	С
CIH02T	0402	0.26	0.54	0.20

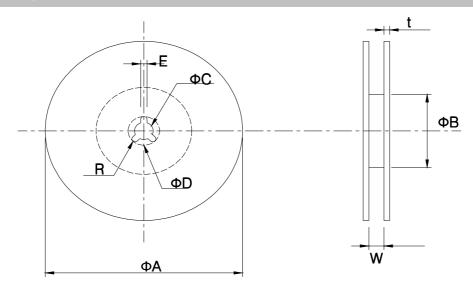


CARD BOARD TAPE CONDITION



Unit: mm

		Chip	Chip (Cavity									Quantity
Туре	уре Таре	Thickness	۸	В	Т	W	E	F	P ₁	P ₂	P ₀	D ₀	/Reel
			Α	В	Ь								(PCS)
0402	Card	0.2	0.24	0.45	0.31	8.0	1.75	3.5	2.0	2.0	4.0	Ф1.5	20,000
0402	board		±0.02	±0.02	±0.03	±0.1	±0.05	±0.05	±0.05	±0.05	±0.05	+0.1	20,000



Unit: mm

TYPE	А	В	С	D	E	W	t	R
7"REEL	φ180+0/-3	φ60+1/-0	φ13±0.3	25±0.5	2.0±0.5	9±0.5	1.2±0.2	1.0

Any data in this sheet are subject to change, modify or discontinue without notice. The data sheets include the typical data for design reference only. If there is any question regarding the data sheets, please contact our sales personnel or application engineers.