FEATURES

- Low profile and thin thickness.
- Monolithic structure for high reliability.
- Ceramic core provides high SRF and tight inductance tolerance.
- Excellent solderability and heat resistance for reflow soldering.
- Operating temperature:-55℃ ~ +125℃.

APPLICATIONS

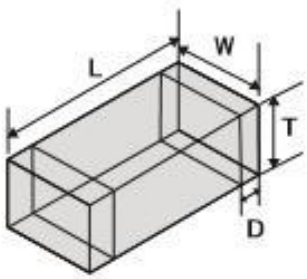
- RF circuit in Telecommunication and other equipments.
- Mobile phones such as GSM, CDMA, TD-LTE, FDD-LTE, PDC, 5GNR,etc.
- Bluetooth, W-LAN.

PRODUCT IDENTIFICATION

MCCI	1005	H	3N3	S	T
(1)	(2)	(3)	(4)	(5)	(6)

(1) Series name
(2) Product dimensions
(3) Feature Type (S: Standard Type; H: High Q Type)
(4) Inductance Value (1N0: 1.0nH, 10N: 10nH, R10: 100nH)
(5) Inductance Tolerance(B:±0.1nH, C:±0.2nH, S:±0.3nH, G:±2%, H:±3%, J:±5%)
(6) Package(T:Tape&Reel 卷盘编带)

SHAPE AND DIMENSIONS



Unit:mm

Series	L	W	T	D
MCCI0402	0.4±0.02	0.2±0.02	0.2±0.02	0.08±0.025
MCCI0603	0.6±0.03	0.3±0.03	0.3±0.03	0.15±0.05
MCCI1005	1.0±0.05	0.5±0.05	0.5±0.05	0.25±0.10
MCCI1608	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.20
MCCI2012	2.0±0.20	1.2±0.20	0.9±0.20	0.5±0.30

SPECIFICATIONS

MCCI0402 Series

Part Number	Inductance (nH)	Tolerance (%)	Q Min.	Test Freq. （MHz）	Typical Q @ Freq. (MHz)					SRF Min. (MHz)	DCR Max. (Ω)	Irms (mA)
					500	800	1800	2000	2400			
MCCI0402S0N2□T	0.2	B/C/S	-	500	12	15	23	25	29	10000	0.30	350
MCCI0402S0N4□T	0.4	B/C/S	8	500	12	15	22	24	26	10000	0.30	350
MCCI0402S0N6□T	0.6	B/C/S	8	500	11	14	20	26	29	10000	0.30	350
MCCI0402S0N8□T	0.8	B/C/S	8	500	12	14	22	25	26	10000	0.40	320
MCCI0402S1N0□T	1.0	B/C/S	8	500	12	15	24	25	28	10000	0.40	250
MCCI0402S1N2□T	1.2	B/C/S	8	500	12	15	23	25	27	10000	0.40	250
MCCI0402S1N5□T	1.5	B/C/S	8	500	12	14	22	21	24	10000	0.40	220
MCCI0402S1N6□T	1.6	B/C/S	8	500	12	15	24	25	28	9000	0.40	220
MCCI0402S1N8□T	1.8	B/C/S	8	500	11	14	24	26	28	9000	0.50	200
MCCI0402S2N0□T	2.0	B/C/S	8	500	12	15	24	26	28	9000	0.50	200
MCCI0402S2N2□T	2.2	B/C/S	8	500	11	14	23	25	27	7000	0.55	200
MCCI0402S2N4□T	2.4	B/C/S	8	500	11	14	22	24	26	7000	0.55	200
MCCI0402S2N6□T	2.6	B/C/S	8	500	10	13	19	23	25	7000	0.60	200
MCCI0402S2N7□T	2.7	B/C/S	8	500	10	13	22	23	25	7000	0.60	200
MCCI0402S3N0□T	3.0	B/C/S	8	500	10	13	19	20	23	7000	0.90	200
MCCI0402S3N3□T	3.3	B/C/S	8	500	10	13	19	20	23	7000	0.90	180
MCCI0402S3N6□T	3.6	B/C/S	8	500	10	12	19	21	23	6000	1.00	180
MCCI0402S3N9□T	3.9	B/C/S	8	500	10	12	19	20	22	6000	1.00	180
MCCI0402S4N3□T	4.3	S/H/J	8	500	10	13	19	21	24	6000	1.10	180
MCCI0402S4N7□T	4.7	S/H/J	8	500	10	13	19	20	22	5000	1.20	160
MCCI0402S5N1□T	5.1	S/H/J	8	500	10	12	18	19	22	5000	1.30	160
MCCI0402S5N6□T	5.6	H/J	8	500	10	12	17	22	24	5000	1.50	140
MCCI0402S6N2□T	6.2	H/J	8	500	10	11	18	20	23	4500	1.60	140
MCCI0402S6N8□T	6.8	H/J	8	500	10	11	17	20	23	4500	1.80	140
MCCI0402S7N5□T	7.5	H/J	8	500	10	13	17	22	24	4200	1.80	140
MCCI0402S8N2□T	8.2	H/J	8	500	10	12	18	20	22	4200	2.00	140
MCCI0402S9N1□T	9.1	H/J	8	500	10	13	17	21	23	4000	2.00	140
MCCI0402S10N□T	10	H/J	8	500	10	12	18	20	21	3600	2.20	140
MCCI0402S12N□T	12	H/J	8	500	9	12	17	18	18	3600	2.40	140
MCCI0402S15N□T	15	H/J	7	500	9	12	16	18	16	3000	3.00	140
MCCI0402S18N□T	18	H/J	7	500	9	11	15	15	12	2300	3.20	140
MCCI0402S20N□T	20	H/J	6	500	8	9	12	10	8	2200	4.50	130

MCCI0603 Series

Part Number	Inductance (nH)	Tolerance (%)	Q Min.	Test Freq. （MHz）	Typical Q @ Freq. (MHz)					SRF Min. (MHz)	DCR Max. (Ω)	Irms (mA)
					500	800	1800	2000	2400			
MCCI0603H0N6□T	0.6	B/C/S	14	500	>24	>32	>54	>57	>65	10000	0.05	1000
MCCI0603H0N7□T	0.7	B/C/S	14	500	>24	>32	>54	>57	>65	10000	0.05	1000
MCCI0603H0N8□T	0.8	B/C/S	14	500	>24	>32	>54	>57	>65	10000	0.06	1000
MCCI0603H0N9□T	0.9	B/C/S	14	500	>24	>32	>54	>57	>65	10000	0.06	800
MCCI0603H1N0□T	1.0	B/C/S	14	500	24	32	54	57	65	10000	0.07	800
MCCI0603H1N1□T	1.1	B/C/S	14	500	19	26	45	47	55	10000	0.07	800
MCCI0603H1N2□T	1.2	B/C/S	14	500	19	25	43	44	52	10000	0.10	800
MCCI0603H1N3□T	1.3	B/C/S	14	500	19	25	40	42	47	10000	0.10	700
MCCI0603H1N4□T	1.4	B/C/S	14	500	19	24	39	41	47	10000	0.10	700
MCCI0603H1N5□T	1.5	B/C/S	14	500	19	24	39	41	46	10000	0.10	650
MCCI0603H1N6□T	1.6	B/C/S	14	500	19	24	39	41	46	10000	0.10	650
MCCI0603H1N7□T	1.7	B/C/S	14	500	19	24	39	41	46	10000	0.10	650
MCCI0603H1N8□T	1.8	B/C/S	14	500	19	24	39	41	46	9000	0.15	650
MCCI0603H2N0□T	2.0	B/C/S	14	500	17	24	38	39	44	8500	0.15	650
MCCI0603H2N2□T	2.2	B/C/S	14	500	17	24	38	40	43	7500	0.15	650
MCCI0603H2N4□T	2.4	B/C/S	14	500	17	23	36	38	42	7500	0.15	550
MCCI0603H2N6□T	2.6	B/C/S	14	500	17	22	34	35	39	7500	0.20	550
MCCI0603H2N7□T	2.7	B/C/S	14	500	17	22	34	35	39	7500	0.20	550
MCCI0603H2N8□T	2.8	B/C/S	14	500	17	22	34	35	39	7500	0.20	500
MCCI0603H3N0□T	3.0	B/C/S	14	500	17	22	34	35	39	7500	0.20	450
MCCI0603H3N3□T	3.3	B/C/S	14	500	18	23	34	36	40	7500	0.25	450
MCCI0603H3N6□T	3.6	B/C/S	14	500	16	23	33	35	39	6500	0.25	400
MCCI0603H3N9□T	3.9	B/C/S	14	500	16	22	33	35	38	6500	0.25	400
MCCI0603H4N3□T	4.3	S/H/J	14	500	16	21	32	34	37	6000	0.35	350
MCCI0603H4N7□T	4.7	S/H/J	14	500	16	22	33	35	38	6000	0.40	350
MCCI0603H5N1□T	5.1	S/H/J	14	500	17	22	34	36	38	5500	0.40	350
MCCI0603H5N6□T	5.6	H/J	14	500	16	21	33	34	37	5000	0.40	350
MCCI0603H6N2□T	6.2	H/J	14	500	18	23	34	35	37	5000	0.40	300
MCCI0603H6N8□T	6.8	H/J	14	500	17	22	32	33	35	4500	0.50	300
MCCI0603H7N5□T	7.5	H/J	14	500	16	21	31	33	34	4000	0.50	300
MCCI0603H8N2□T	8.2	H/J	14	500	16	21	31	32	34	4000	0.50	250
MCCI0603H9N1□T	9.1	H/J	14	500	16	20	30	31	32	4000	0.70	250
MCCI0603H10N□T	10	H/J	14	500	16	20	28	29	31	4000	0.70	250
MCCI0603H12N□T	12	H/J	13	500	16	20	27	28	28	3500	0.70	250
MCCI0603H15N□T	15	H/J	13	500	15	19	24	24	23	3200	0.85	250
MCCI0603H18N□T	18	H/J	13	500	15	19	23	24	22	3000	1.00	200
MCCI0603H20N□T	20	H/J	13	500	15	19	22	23	21	2200	1.10	150
MCCI0603H22N□T	22	H/J	13	500	15	19	22	23	20	2200	1.20	150
MCCI0603H27N□T	27	H/J	13	500	15	19	15	13	8	2200	1.50	140

MCCI0603H33N□T	33	H/J	12	300	14	15	8	5	-	1800	1.80	120
MCCI0603H36N□T	36	H/J	12	300	14	15	7	-	-	1700	2.00	120
MCCI0603H39N□T	39	H/J	12	300	14	15	6	-	-	1600	2.00	120
MCCI0603H43N□T	43	H/J	12	300	14	15	-	-	-	1600	2.20	100
MCCI0603H47N□T	47	H/J	12	300	14	15	-	-	-	1500	2.20	100
MCCI0603H56N□T	56	H/J	12	300	13	13	-	-	-	1200	2.50	100
MCCI0603H68N□T	68	H/J	12	300	13	11	-	-	-	1000	3.20	100
MCCI0603H75N□T	75	H/J	11	300	13	11	-	-	-	1000	3.60	100
MCCI0603H82N□T	82	H/J	11	300	12	10	-	-	-	1000	3.80	100
MCCI0603H91N□T	91	H/J	11	300	12	10	-	-	-	900	3.80	80
MCCI0603HR10□T	100	H/J	11	300	12	10	-	-	-	800	4.00	80
MCCI0603HR12□T	120	H/J	10	300	12	8	-	-	-	800	5.00	80

MCCI1005 Series

Part Number	Inductance (nH)	Tolerance (%)	Q Min.	Test Freq. （MHz）	Typical Q @ Freq. (MHz)					SRF Min. (MHz)	DCR Max. (Ω)	Irms (mA)
					500	800	1800	2000	2400			
MCCI1005H1N0□T	1.0	B/C/S	8	100	22	30	48	50	58	10000	0.06	1000
MCCI1005H1N1□T	1.1	B/C/S	8	100	23	29	47	50	57	10000	0.07	1000
MCCI1005H1N2□T	1.2	B/C/S	8	100	23	29	48	50	56	10000	0.07	1000
MCCI1005H1N3□T	1.3	B/C/S	8	100	22	29	44	47	53	10000	0.07	1000
MCCI1005H1N5□T	1.5	B/C/S	8	100	23	29	47	50	56	6000	0.08	1000
MCCI1005H1N6□T	1.6	B/C/S	8	100	23	29	46	49	54	6000	0.08	1000
MCCI1005H1N8□T	1.8	B/C/S	8	100	20	30	41	43	49	6000	0.08	900
MCCI1005H2N0□T	2.0	B/C/S	8	100	21	29	41	43	48	6000	0.09	900
MCCI1005H2N2□T	2.2	B/C/S	8	100	22	29	44	47	52	6000	0.09	900
MCCI1005H2N4□T	2.4	B/C/S	8	100	21	29	42	44	49	6000	0.10	800
MCCI1005H2N7□T	2.7	B/C/S	8	100	22	29	43	45	50	6000	0.12	800
MCCI1005H3N0□T	3.0	B/C/S	8	100	24	29	47	49	54	6000	0.12	800
MCCI1005H3N3□T	3.3	B/C/S	8	100	24	30	46	48	53	6000	0.13	800
MCCI1005H3N6□T	3.6	B/C/S	8	100	21	28	40	42	46	4000	0.15	700
MCCI1005H3N9□T	3.9	B/C/S	8	100	22	28	43	45	50	4000	0.16	700
MCCI1005H4N3□T	4.3	B/C/S	8	100	24	29	47	49	53	4000	0.16	700
MCCI1005H4N7□T	4.7	B/C/S	8	100	23	29	45	47	50	4000	0.16	700
MCCI1005H5N1□T	5.1	B/C/S	8	100	23	29	42	43	44	4000	0.16	600
MCCI1005H5N6□T	5.6	B/C/S	8	100	22	28	42	43	45	4000	0.20	600
MCCI1005H6N2□T	6.2	B/C/S	8	100	24	29	42	43	43	3900	0.20	600
MCCI1005H6N8□T	6.8	G/H/J	8	100	23	28	40	41	41	3900	0.20	600
MCCI1005H7N5□T	7.5	G/H/J	8	100	24	30	41	41	39	3700	0.24	500
MCCI1005H8N2□T	8.2	G/H/J	8	100	23	28	38	38	36	3600	0.24	500
MCCI1005H9N1□T	9.1	G/H/J	8	100	24	30	40	39	36	3400	0.26	500
MCCI1005H10N□T	10	G/H/J	8	100	24	30	37	36	31	3200	0.26	500
MCCI1005H12N□T	12	G/H/J	8	100	23	29	33	31	-	2700	0.50	400

MCCI1005H15N□T	15	G/H/J	8	100	23	28	29	26	-	2300	0.50	400
MCCI1005H18N□T	18	G/H/J	8	100	23	28	26	-	-	2100	0.60	350
MCCI1005H20N□T	20	G/H/J	8	100	21	27	21	-	-	2000	0.60	350
MCCI1005H22N□T	22	G/H/J	8	100	22	27	-	-	-	1900	0.60	350
MCCI1005H27N□T	27	G/H/J	8	100	20	25	-	-	-	1600	0.70	300
MCCI1005H33N□T	33	G/H/J	8	100	20	23	-	-	-	1300	0.80	300
MCCI1005H39N□T	39	G/H/J	8	100	20	22	-	-	-	1200	1.0	250
MCCI1005H43N□T	43	G/H/J	8	100	20	21	-	-	-	1100	1.1	250
MCCI1005H47N□T	47	G/H/J	8	100	19	21	-	-	-	1000	1.1	250
MCCI1005H56N□T	56	G/H/J	8	100	19	18	-	-	-	750	1.2	200
MCCI1005H68N□T	68	G/H/J	8	100	17	18	-	-	-	750	1.4	200
MCCI1005H82N□T	82	G/H/J	8	100	16	-	-	-	-	750	1.6	200
MCCI1005HR10□T	100	G/H/J	8	100	14	-	-	-	-	700	2.0	200
MCCI1005HR12□T	120	G/H/J	8	100	12	-	-	-	-	600	2.5	150
MCCI1005HR15□T	150	G/H/J	8	100	11	-	-	-	-	550	3.0	150
MCCI1005HR18□T	180	G/H/J	8	100	-	-	-	-	-	500	3.5	150
MCCI1005HR22□T	220	G/H/J	8	100	-	-	-	-	-	450	3.7	100
MCCI1005HR27□T	270	G/H/J	8	100	-	-	-	-	-	400	4.5	100
MCCI1005HR33□T	330	G/H/J	6	50	-	-	-	-	-	350	5.0	80
MCCI1005HR36□T	360	G/H/J	6	50	-	-	-	-	-	300	6.0	80

MCCI1608S Series

Part Number	Inductance (nH)	Tolerance (%)	Q Min.	Test Freq. （MHz）	Typical Q @ Freq. (MHz)			SRF Min. (MHz)	DCR Max. (Ω)	Irms (mA)
					100	800	1000			
MCCI1608S1N0ST	1.0	S	8	100	14	50	60	10000	0.05	500
MCCI1608S1N2ST	1.2	S	8	100	14	50	65	10000	0.05	500
MCCI1608S1N5ST	1.5	S	8	100	13	42	62	6000	0.10	500
MCCI1608S1N8ST	1.8	S	8	100	13	40	56	6000	0.10	500
MCCI1608S2N0ST	2.0	S	8	100	13	38	54	6000	0.10	500
MCCI1608S2N2ST	2.2	S	8	100	13	38	54	6000	0.10	500
MCCI1608S2N4ST	2.4	S	8	100	13	36	52	6000	0.12	500
MCCI1608S2N7ST	2.7	S	10	100	12	36	52	6000	0.12	500
MCCI1608S3N0ST	3.0	S	10	100	12	35	50	6000	0.15	500
MCCI1608S3N3ST	3.3	S	10	100	12	35	50	6000	0.15	500
MCCI1608S3N6ST	3.6	S	10	100	13	35	50	6000	0.16	500
MCCI1608S3N9ST	3.9	S	10	100	12	34	50	6000	0.16	500
MCCI1608S4N3ST	4.3	S	10	100	13	33	50	6000	0.18	500
MCCI1608S4N7ST	4.7	S	10	100	13	33	50	6000	0.20	500
MCCI1608S5N1ST	5.1	S	10	100	13	32	48	5500	0.25	500
MCCI1608S5N6ST	5.6	S	10	100	14	32	48	5000	0.25	500
MCCI1608S6N8JT	6.8	J	10	100	14	32	50	5000	0.30	500

MCCI1608S7N5JT	7.5	J	10	100	14	32	48	4500	0.35	500
MCCI1608S8N2JT	8.2	J	10	100	14	30	48	4500	0.35	500
MCCI1608S9N1JT	9.1	J	10	100	14	30	48	3500	0.40	500
MCCI1608S10NJT	10	J	12	100	15	29	50	3500	0.40	300
MCCI1608S12NJT	12	J	12	100	14	29	50	3000	0.45	300
MCCI1608S15NJT	15	J	12	100	15	29	50	2300	0.50	300
MCCI1608S18NJT	18	J	12	100	16	29	51	2200	0.55	300
MCCI1608S22NJT	22	J	12	100	16	28	48	2000	0.60	300
MCCI1608S27NJT	27	J	12	100	16	28	45	1700	0.65	300
MCCI1608S33NJT	33	J	12	100	16	28	41	1500	0.70	300
MCCI1608S39NJT	39	J	12	100	17	28	48	1400	0.70	300
MCCI1608S47NJT	47	J	12	100	17	28	35	1200	0.70	300
MCCI1608S56NJT	56	J	12	100	17	26	30	1100	0.75	300
MCCI1608S68NJT	68	J	12	100	17	26	20	900	0.85	300
MCCI1608S82NJT	82	J	8	100	15	22	-	800	1.00	300
MCCI1608SR10JT	100	J	8	100	15	16	-	700	1.20	300
MCCI1608SR12JT	120	J	8	50	15	-	-	600	1.40	200
MCCI1608SR15JT	150	J	8	50	15	-	-	500	1.60	200
MCCI1608SR18JT	180	J	8	50	15	-	-	400	1.90	200
MCCI1608SR22JT	220	J	8	50	15	-	-	350	2.40	200
MCCI1608SR27JT	270	J	8	50	16	-	-	350	2.60	150
MCCI1608SR33JT	330	J	8	50	16	-	-	350	2.80	150
MCCI1608SR39JT	390	J	8	50	16	-	-	300	3.20	150
MCCI1608SR43JT	430	J	8	50	16	-	-	280	3.40	150
MCCI1608SR47JT	470	J	8	50	15	-	-	250	3.60	150

MCCI2012S Series

Part Number	Inductance (nH)	Tolerance (%)	Q Min.	Test Freq. （MHz）	Typical Q @ Freq. (MHz)			SRF Min. (MHz)	DCR Max. (Ω)	Irms (mA)
					100	800	1000			
MCCI2012SIN5ST	1.5	S	10	100	21	50	70	6000	0.10	500
MCCI2012SIN8ST	1.8	S	10	100	20	48	70	6000	0.10	500
MCCI2012S2N2ST	2.2	S	10	100	20	48	70	6000	0.10	500
MCCI2012S2N7ST	2.7	S	12	100	18	48	70	5500	0.10	500
MCCI2012S3N3ST	3.3	S	12	100	18	48	65	5000	0.13	500
MCCI2012S3N9ST	3.9	S	12	100	18	50	65	4500	0.15	500
MCCI2012S4N7ST	4.7	S	12	100	18	50	65	4000	0.20	500
MCCI2012S5N6ST	5.6	S	15	100	18	48	65	3500	0.23	500
MCCI2012S6N8JT	6.8	J	15	100	18	48	65	3000	0.25	500
MCCI2012S8N2JT	8.2	J	15	100	20	50	65	2500	0.28	500
MCCI2012S10NJT	10	J	15	100	21	50	65	2200	0.30	500
MCCI2012S12NJT	12	J	15	100	20	48	65	2000	0.35	500

MCCI2012S15NJT	15	J	15	100	20	48	65	1800	0.40	500
MCCI2012S18NJT	18	J	15	100	22	48	60	1600	0.45	300
MCCI2012S22NJT	22	J	15	100	19	48	45	1500	0.50	300
MCCI2012S27NJT	27	J	15	100	19	48	38	1400	0.55	300
MCCI2012S33NJT	33	J	15	100	19	48	30	1300	0.60	300
MCCI2012S39NJT	39	J	15	100	19	45	26	1100	0.65	300
MCCI2012S47NJT	47	J	18	100	23	43	20	1000	0.70	300
MCCI2012S56NJT	56	J	18	100	22	39	10	900	0.75	300
MCCI2012S68NJT	68	J	18	100	22	30	-	850	0.80	300
MCCI2012S82NJT	82	J	18	100	22	-	-	800	0.90	300
MCCI2012SR10JT	100	J	18	100	22	-	-	700	0.90	300
MCCI2012SR12JT	120	J	13	50	19	-	-	600	0.95	300
MCCI2012SR15JT	150	J	13	50	19	-	-	550	1.2	300
MCCI2012SR18JT	180	J	13	50	19	-	-	500	1.3	300
MCCI2012SR22JT	220	J	12	50	20	-	-	400	1.5	300
MCCI2012SR27JT	270	J	12	50	20	-	-	350	1.8	300
MCCI2012SR33JT	330	J	12	50	18	-	-	300	2.0	300
MCCI2012SR39JT	390	J	10	50	17	-	-	250	2.0	300
MCCI2012SR47JT	470	J	10	50	17	-	-	200	2.0	300

Note:

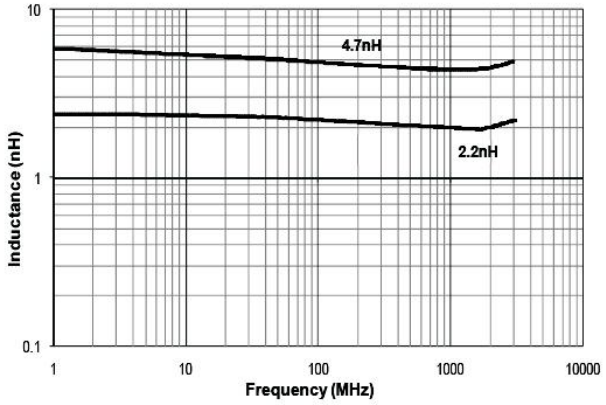
Please specify the inductance tolerance: B:±0.1nH, C:±0.2nH, S:±0.3nH, G:±2%, H:±3%, J:±5%.

Irms: DC current that causes the temperature rise(ΔT=20℃) from 25℃ ambient.

CHARACTERISTICS CURVES

Inductance VS. Frenquency

MCCI0402



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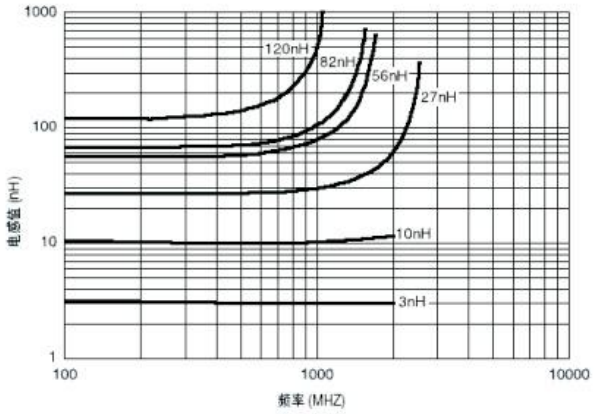
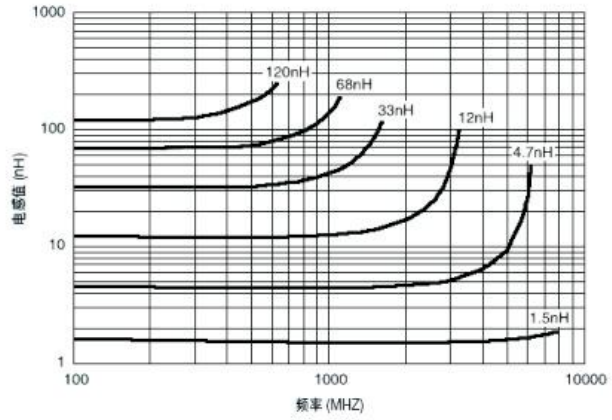


MCCI1005



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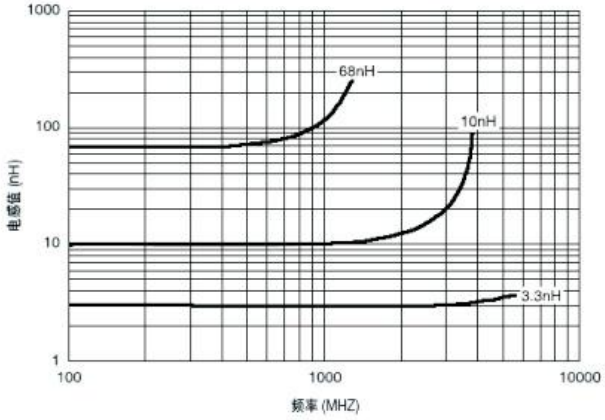
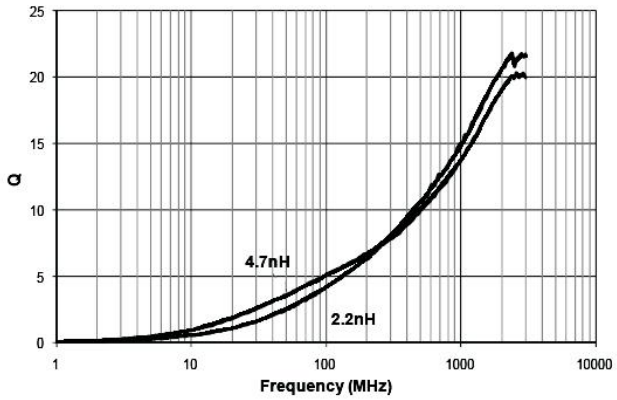


Q Factor VS. Frenquency

MCCI0402



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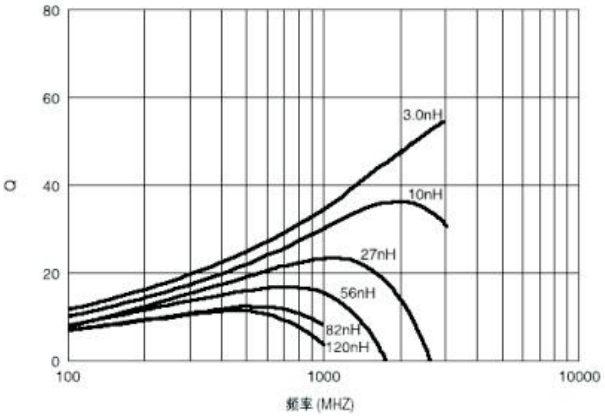

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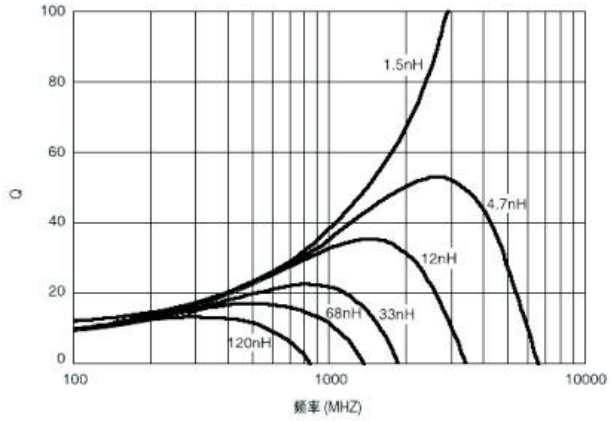

MCCI1608