



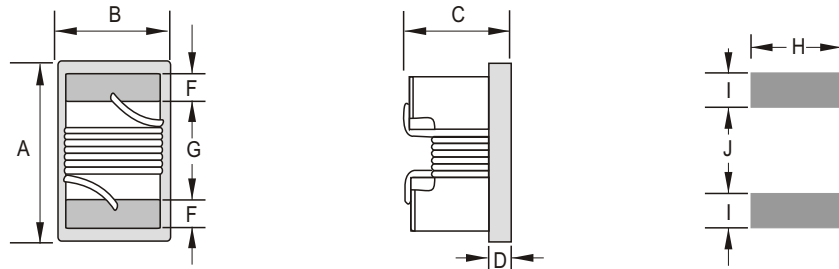
Features

- Ceramic Core
- High frequency design
- Excellent Q values
- High reliability
- Excellent thermal stability

Applications

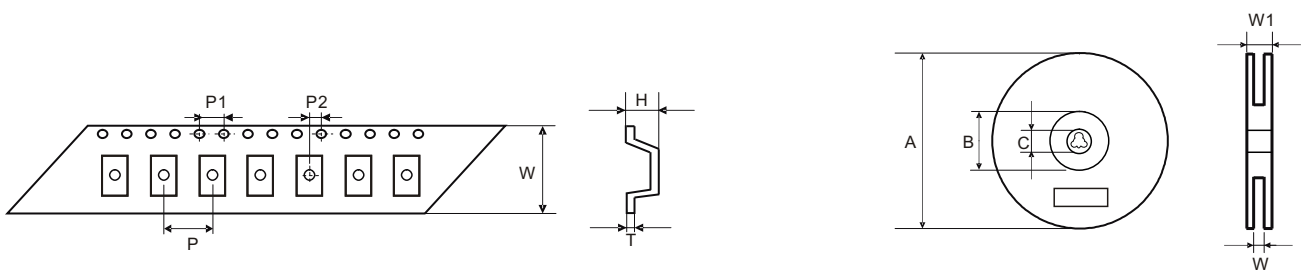
- Modems
- Mobile Radios
- Cordless Telephones
- Global Positioning Systems
- Telecommunications Systems

► Dimensions & Configurations [Unit: mm]



Type	A max	B max	C max	D ref	E	F	G	H	I	J
MSCC0402(1005)	1.19	0.64	0.66	0.25	0.51	0.23	0.56	0.66	0.36	0.46
MSCC0603(1608)	1.80	1.12	1.02	0.38	0.76	0.33	0.86	1.02	0.64	0.64
MSCC0805(2012)	2.29	1.73	1.52	0.51	1.27	0.51	1.02	1.78	1.02	0.76
MSCC1008(2520)	2.92	2.79	2.03	0.51	2.03	0.51	1.52	2.54	1.02	1.27

► Tape And Reel Specifications [Unit: mm]



Type	Dimension	QTY Per Reel	W	P	P1	P2	H	T	A	B	C	W	W1
	Tolerance	Pcs	±0.3	±0.1	±0.2	±0.05	±0.01	±0.01	±2.0	min	±0.5	±1.5	+3.0
MSCC0402(1005)		2000	8.0	4.0	4.06	2.01	0.70	0.23	178	50	13	9	12.5
MSCC0603(1608)		2000	8.0	4.0	4.06	2.01	1.20	0.23	178	50	13	9	12.5
MSCC0805(2012)		2000	8.0	4.0	4.06	2.01	1.60	0.23	178	50	13	9	12.5
MSCC1008(2520)		2000	8.0	4.0	4.06	2.01	2.20	0.23	178	50	13	9	12.5

▶ Electrical Characteristics For MSCC0402(1005) Series

Part Number	Inductance @250MHz [nH]	Tolerance	900 MHz		1.7 GHz		SRF (Min) [MHz]	DCR (max) [Ω]	IDC (Max) [mA]
			L typ	Q typ	L typ	Q typ			
MSCC0402-1N0	1	10	1.02	77	1.02	69	12.7	0.045	1360
MSCC0402-3N3	1.9	10,5	1.72	68	1.74	82	11.3	0.070	1040
MSCC0402-2N0	2.0	10,5	1.93	54	1.93	75	11.1	0.070	1040
MSCC0402-2N2	2.2	10,5	2.19	59	2.23	100	10.8	0.070	960
MSCC0402-2N4	2.4	10,5	2.24	51	2.27	68	10.5	0.068	790
MSCC0402-2N7	2.7	10,5	2.58	42	2.60	61	10.4	0.120	640
MSCC0402-3N3	3.3	10,5,2	3.10	65	3.12	87	7.00	0.066	840
MSCC0402-3N6	3.6	10,5,2	3.56	45	3.62	71	6.80	0.066	840
MSCC0402-3N9	3.9	10,5,2	3.89	50	4.00	75	6.00	0.066	840
MSCC0402-4N3	4.3	10,5,2	4.19	47	4.30	71	6.00	0.091	700
MSCC0402-4N7	4.7	10,5,2	4.55	48	4.68	68	4.77	0.130	640
MSCC0402-5N1	5.1	10,5,2	5.15	56	5.25	82	4.80	0.083	800
MSCC0402-5N6	5.6	10,5,2	5.16	54	5.28	81	4.80	0.083	760
MSCC0402-6N2	6.2	10,5,2	6.16	52	6.37	76	4.80	0.083	760
MSCC0402-6N8	6.8	10,5,2	6.56	63	6.93	78	4.80	0.083	680
MSCC0402-7N5	7.5	10,5,2	7.91	60	8.22	88	4.80	0.100	680
MSCC0402-8N2	8.2	10,5,2	8.50	57	8.85	84	4.40	0.100	680
MSCC0402-8N7	8.7	10,5,2	8.78	54	9.21	73	4.10	0.200	480
MSCC0402-9N0	9.0	10,5,2	9.07	62	9.53	78	4.16	0.100	681
MSCC0402-9N5	9.5	10,5,2	9.42	54	9.98	69	4.00	0.200	480
MSCC0402-10N	10	10,5,2	9.80	50	10.10	67	3.90	0.200	480
MSCC0402-11N	11	10,5,2	10.70	52	11.15	78	3.68	0.120	640
MSCC0402-12N	12	10,5,2	11.90	53	12.68	71	3.60	0.120	640
MSCC0402-13N	13	10,5,2	13.40	51	14.63	57	3.45	0.210	440
MSCC0402-15N	15	10,5,2	14.60	55	15.50	77	3.28	0.170	560
MSCC0402-16N	16	10,5,2	16.60	46	18.86	47	3.10	0.220	560
MSCC0402-17N	18	10,5,2	18.30	57	20.28	62	3.10	0.230	420
MSCC0402-19N	19	10,5,2	19.10	50	21.11	67	3.04	0.200	480
MSCC0402-20N	20	10,5,2	20.70	52	23.66	53	3.00	0.250	420
MSCC0402-22N	22	10,5,2	23.20	53	26.75	53	2.80	0.300	400
MSCC0402-23N	23	10,5,2	23.80	49	26.85	64	2.72	0.300	400
MSCC0402-24N	24	10,5,2	25.10	51	29.50	50	2.70	0.300	400
MSCC0402-27N	27	10,5,2	28.70	49	33.50	63	2.48	0.300	400
MSCC0402-30N	30	10,5,2	31.10	46	38.50	39	2.35	0.300	400
MSCC0402-33N	33	10,5,2	34.90	31	41.74	32	2.35	0.300	400
MSCC0402-36N	36	10,5,2	39.50	44	48.40	53	2.32	0.440	320
MSCC0402-39N	39	10,5,2	41.70	47	50.23	45	2.10	0.550	200
MSCC0402-40N	40	10,5,2	39.00	44	47.41	33	2.24	0.440	320
MSCC0402-43N	43	10,5,2	45.80	46	61.55	34	2.03	0.810	100
MSCC0402-47N	47	10,5,2	50.00	38	55.80	37	2.10	0.830	150
MSCC0402-51N	51	10,5,2	56.60	40	59.40	37	1.75	0.820	100
MSCC0402-56N	56	10,5,2	62.80	42	72.40	40	1.76	0.970	100
MSCC0402-68N	68	10,5,2	78.19	36	83.40	38	1.62	1.120	100

▶ Electrical Characteristics For MSCC0603(1608) Series

Part Number	Inductance [nH]	Tolerance	Q Min	900 MHz		1.7 GHz		SRF (Min) [MHz]	DCR (max) [Ω]	IDC (Max) [mA]
				L typ	Q typ	L typ	Q typ			
MSCC0603-2N2	1.8 @ 250MHz	20,10	16	1.6	35	1.66	50	6000	0.045	700
MSCC0603-3N9	3.9 @ 250MHz	10,5	22	4.0	49	3.96	67	6000	0.08	700
MSCC0603-6N8	6.8 @ 250MHz	10,5	27	6.8	60	7.10	81	5800	0.11	700
MSCC0603-10N	10 @ 250MHz	10,5	31	10.0	66	10.6	83	4800	0.13	700
MSCC0603-12N	12 @ 250MHz	10,5	35	12.3	72	13.5	83	4000	0.13	700
MSCC0603-15N	15 @ 250MHz	10,5	35	15.4	64	16.8	89	4000	0.17	700
MSCC0603-18N	18 @ 250MHz	10,5	35	18.7	70	21.4	69	3100	0.17	700
MSCC0603-22N	22 @ 250MHz	10,5	38	22.8	73	26.1	71	3000	0.19	700
MSCC0603-27N	27 @ 250MHz	10,5	40	29.2	74	34.6	65	2800	0.22	600
MSCC0603-33N	33 @ 250MHz	10,5	40	36.0	67	49.5	42	2300	0.22	600
MSCC0603-39N	39 @ 250MHz	10,5	40	42.7	60	60.2	40	2200	0.25	600
MSCC0603-47N	47 @ 200MHz	10,5	38	53.3	62	77.2	35	2000	0.28	600
MSCC0603-56N	56 @ 200MHz	10,5	38	62.5	56	97.0	26	1900	0.31	600
MSCC0603-68N	68 @ 200MHz	10,5	37	80.5	54	168	21	1700	0.34	600
MSCC0603-72N	72 @ 150MHz	10,5	34	82.0	53	135	20	1700	0.49	400
MSCC0603-82N	82 @ 150MHz	10,5	34	96.2	54	177	21	1700	0.54	400
MSCC0603-R10	100 @ 150MHz	10,5	34	124	49	-	-	1400	0.58	400
MSCC0603-R11	110 @ 150MHz	10,5	32	138	43	-	-	1350	0.61	400
MSCC0603-R12	120 @ 150MHz	10,5	32	166	39	-	-	1300	0.65	300

▶ Electrical Characteristics For MSCC0805(2012) Series

Part Number	Inductance [nH]	Tolerance	Q (Min)	SRF (Min) [MHz]	DCR (max) [Ω]	IDC (Max) [mA]
MSCC0805-2N2	2.2 @ 250MHz	10,5	50 @ 1500MHz	6000	0.05	600
MSCC0805-3N3	3.3 @250MHz	10,5	25 @ 1000MHz	6000	0.20	600
MSCC0805-6N8	6.8 @ 250MHz	10,5	50 @ 1000MHz	5500	0.11	600
MSCC0805-8N2	8.2 @ 250MHz	10,5	50 @ 1000MHz	4700	0.12	600
MSCC0805-12N	12 @ 250MHz	10,5	50 @ 500MHz	4000	0.15	600
MSCC0805-15N	15 @ 250MHz	10,5	50 @ 500MHz	3400	0.17	600
MSCC0805-18N	18 @ 250MHz	10,5	50 @ 500MHz	3300	0.20	600
MSCC0805-22N	22 @ 250MHz	10,5,2	55 @ 500MHz	2600	0.22	500
MSCC0805-27N	27 @ 250MHz	10,5,2	55 @ 500MHz	2500	0.25	500
MSCC0805-33N	33 @ 250MHz	10,5,2	55 @ 500MHz	2500	0.27	500
MSCC0805-39N	39 @ 250MHz	10,5,2	60 @ 500MHz	2000	0.29	500
MSCC0805-47N	47 @ 200MHz	10,5,2	60 @ 500MHz	1650	0.31	500
MSCC0805-56N	56 @ 200MHz	10,5,2,1	60 @ 500MHz	1550	0.34	500
MSCC0805-68N	68 @ 200MHz	10,5,2,1	60 @ 500MHz	1450	0.38	500
MSCC0805-82N	82 @ 150MHz	10,5,2,1	60 @ 500MHz	1300	0.42	400
MSCC0805-R10	100 @ 150MHz	10,5,2,1	55 @ 500MHz	1200	0.46	400
MSCC0805-R12	120 @ 150MHz	10,5,2,1	50 @ 250MHz	1100	0.51	400
MSCC0805-R15	150 @ 100MHz	10,5,2,1	50 @ 250MHz	920	0.56	400
MSCC0805-R18	180 @ 100MHz	10,5,2,1	50 @ 250MHz	870	0.64	400
MSCC0805-R22	220 @ 100MHz	10,5	50 @ 250MHz	850	1.10	400
MSCC0805-R27	270 @ 100MHz	10,5	48 @ 250MHz	800	1.30	280
MSCC0805-R33	330 @ 100MHz	10,5	48 @ 250MHz	750	1.40	260
MSCC0805-R39	390 @ 100MHz	10,5	45 @ 250MHz	700	2.30	200
MSCC0805-R47	470 @ 100MHz	10,5	45 @ 250MHz	650	2.50	170
MSCC0805-R56	560 @ 100MHz	10,5	30 @ 50MHz	570	3.50	170
MSCC0805-R68	680 @ 100MHz	10,5	30 @ 50MHz	500	4.00	170

▶ Electrical Characteristics For MSCC1008(2520) Series

Part Number	Inductance [nH]	Tolerance	Q (Min)	SRF (Min) [MHz]	DCR (max) [Ω]	IDC (Max) [mA]
MSCC1008-3N3	4.7 @ 100MHz	20,10	50 @ 1500MHz	6000	0.15	600
MSCC1008-10N	10 @ 100MHz	10,5	50 @ 500MHz	4100	0.08	1000
MSCC1008-12N	12 @ 100MHz	10,5	50 @ 500MHz	3300	0.09	1000
MSCC1008-15N	15 @ 100MHz	10,5	50 @ 500MHz	2500	0.10	1000
MSCC1008-18N	18 @ 100MHz	10,5	50 @ 500MHz	2500	0.11	1000
MSCC1008-22N	22 @ 100MHz	10,5,2	55 @ 350MHz	2400	0.12	1000
MSCC1008-27N	27 @ 100MHz	10,5,2	55 @ 350MHz	1600	0.13	1000
MSCC1008-33N	33 @ 100MHz	10,5,2	60 @ 350MHz	1600	0.14	1000
MSCC1008-39N	39 @ 100MHz	10,5,2	60 @ 350MHz	1500	0.15	1000
MSCC1008-47N	47 @ 100MHz	10,5,2	65 @ 350MHz	1500	0.16	1000
MSCC1008-56N	56 @ 100MHz	10,5,2	65 @ 350MHz	1350	0.18	1000
MSCC1008-68N	68 @ 100MHz	10,5,2	65 @ 350MHz	1300	0.20	1000
MSCC1008-82N	82 @ 100MHz	10,5,2,1	60 @ 350MHz	1000	0.22	1000
MSCC1008-R10	100 @ 25MHz	10,5,2,1	60 @ 350MHz	1000	0.56	650
MSCC1008-R12	120 @ 25MHz	10,5,2,1	45 @ 100MHz	950	0.63	650
MSCC1008-R15	150 @ 25MHz	10,5,2,1	45 @ 100MHz	850	0.70	580
MSCC1008-R18	180 @ 25MHz	10,5,2,1	45 @ 100MHz	750	0.77	620
MSCC1008-R22	220 @ 25MHz	10,5,2,1	45 @ 100MHz	700	0.84	500
MSCC1008-R27	270 @ 25MHz	10,5,2,1	45 @ 100MHz	600	0.91	500
MSCC1008-R33	330 @ 25MHz	10,5,2,1	45 @ 100MHz	570	1.05	450
MSCC1008-R39	390 @ 25MHz	10,5,2,1	45 @ 100MHz	500	1.12	470
MSCC1008-R47	470 @ 25MHz	10,5,2,1	45 @ 100MHz	450	1.19	470
MSCC1008-R56	560 @ 25MHz	10,5,2,1	45 @ 100MHz	415	1.33	400
MSCC1008-R62	620 @ 25MHz	10,5,2,1	45 @ 100MHz	375	1.40	300
MSCC1008-R68	680 @ 25MHz	10,5,2,1	45 @ 100MHz	375	1.47	400
MSCC1008-R75	750 @ 25MHz	10,5,2,1	45 @ 100MHz	360	1.54	360
MSCC1008-R82	820 @ 25MHz	10,5,2,1	45 @ 100MHz	350	1.61	400
MSCC1008-R91	910 @ 25MHz	10,5,2,1	35 @ 50MHz	320	1.68	380
MSCC1008-1R0	1000 @ 25MHz	10,5,2,1	35 @ 50MHz	290	1.75	370
MSCC1008-1R2	1200 @ 7.9MHz	10,5,2,1	35 @ 50MHz	250	2.00	310
MSCC1008-1R5	1500 @ 7.9MHz	10,5,2	28 @ 50MHz	200	2.30	330
MSCC1008-1R8	1800 @ 7.9MHz	10,5,2	28 @ 50MHz	160	2.60	300
MSCC1008-2R2	2200 @ 7.9MHz	10,5,2	28 @ 50MHz	160	2.80	280
MSCC1008-2R7	2700 @ 7.9MHz	10,5,2	22 @ 50MHz	140	3.20	290
MSCC1008-3R3	3300 @ 7.9MHz	10,5,2	22 @ 50MHz	110	3.40	290
MSCC1008-3R9	3900 @ 7.9MHz	10,5,2	20 @ 50MHz	100	5.00	260
MSCC1008-4R7	4700 @ 7.9MHz	10,5,2	20 @ 50MHz	90	5.50	260
MSCC2520-5R6	5600 @ 7.9MHz	10,5	16 @ 7.9MHz	20	4.00	240
MSCC2520-6R8	6800 @ 7.9MHz	10,5	18 @ 7.9MHz	40	4.90	200
MSCC2520-8R2	8200 @ 7.9MHz	10,5	18 @ 7.9MHz	25	6.00	170