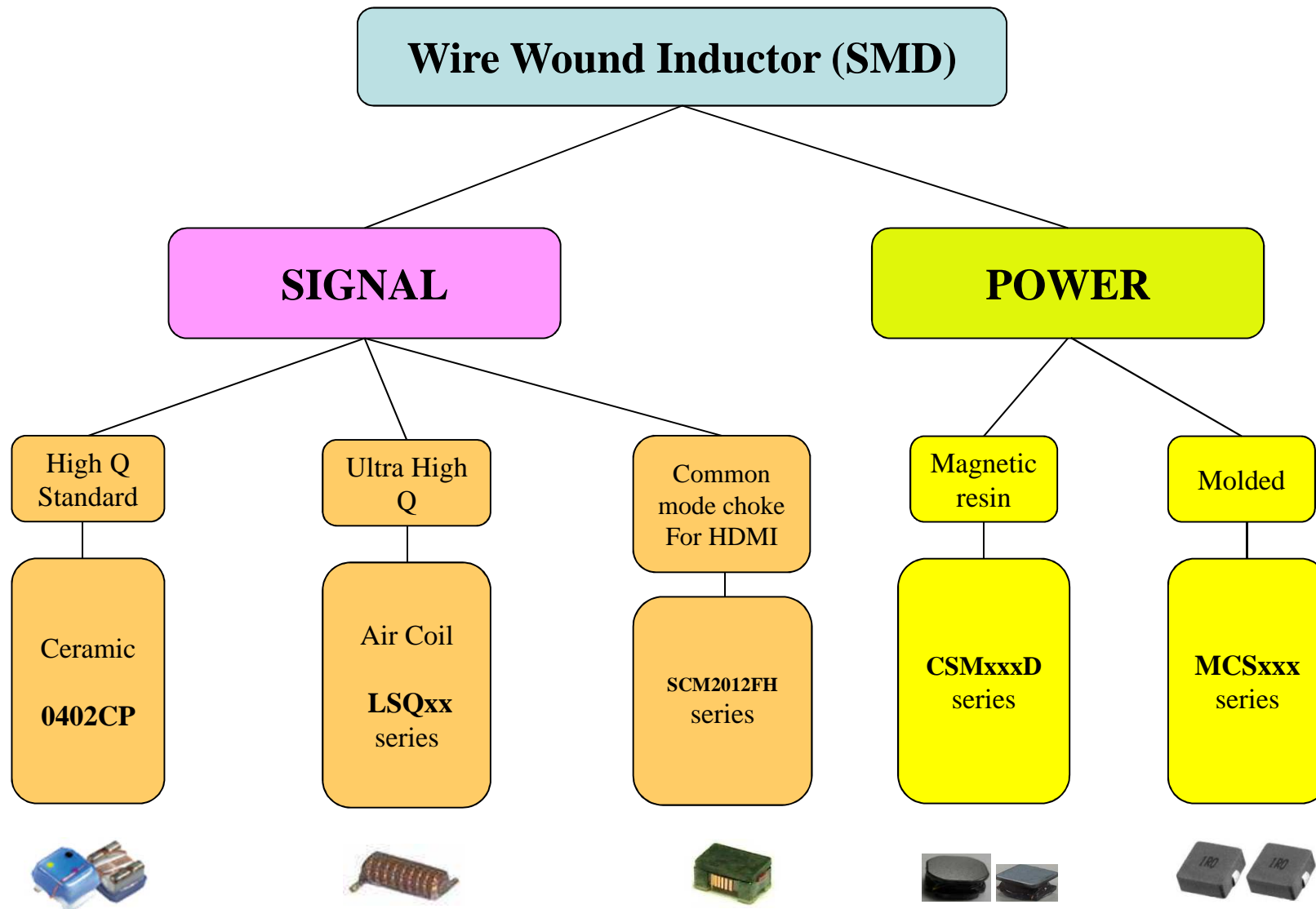




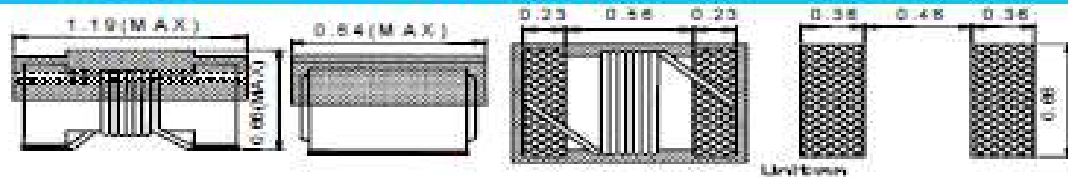
2012 PDC Products Roadmap

PDC SMT Wire-wound Inductor



0402CP series - 1

Mechanical Dimensions: (Unit: mm)



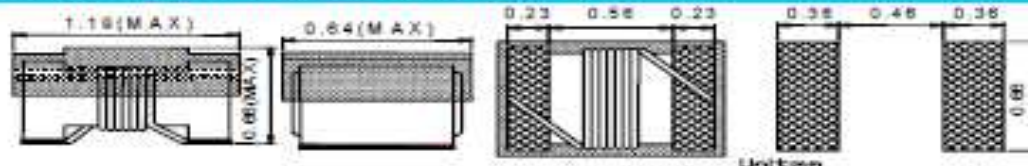
Recommended Patterns

Electrical Specification

Part No.	Inductance (nH)	Inductance Tolerance	Q Min	Test Freq. (MHz)	SRF GHz Min	DCR Ohm Max	Rated Current (mA)
0402CP-1N0□-LRH	1.0	J・K	16	250	12.70	0.045	1360
0402CP-1N2□-LRH	1.2	J・K	16	250	12.90	0.090	740
0402CP-1N8□-LRH	1.8	J・K	16	250	12.00	0.070	1040
0402CP-1N0□-LRH	1.9	J・K	16	250	11.30	0.070	1040
0402CP-2N0□-LRH	2.0	G・J・K	16	250	13.10	0.070	1040
0402CP-2N2□-LRH	2.2	G・J・K	19	250	10.80	0.070	960
0402CP-2N4□-LRH	2.4	G・J・K	15	250	10.50	0.068	790
0402CP-2N7□-LRH	2.7	G・J・K	16	250	10.40	0.120	640
0402CP-3N3□-LRH	3.3	G・J・K	19	250	7.00	0.066	640
0402CP-3N6□-LRH	3.6	G・J・K	19	250	6.80	0.066	640
0402CP-3N9□-LRH	3.9	G・J・K	19	250	6.00	0.066	640
0402CP-4N3□-LRH	4.3	G・J・K	18	250	6.00	0.091	700
0402CP-4N7□-LRH	4.7	G・J・K	15	250	4.70	0.13	640
0402CP-5N1□-LRH	5.1	G・J・K	20	250	4.80	0.083	800
0402CP-5N6□-LRH	5.6	G・J・K	20	250	4.80	0.083	760
0402CP-6N2□-LRH	6.2	G・J・K	20	250	4.80	0.083	760
0402CP-6N8□-LRH	6.8	G・J・K	20	250	4.80	0.083	680
0402CP-7N3□-LRH	7.3	G・J・K	20	250	4.8	0.26	680
0402CP-7N3□-LRH	7.5	G・J・K	22	250	4.80	0.100	680
0402CP-8N2□-LRH	8.2	G・J・K	22	250	4.40	0.100	680
0402CP-8N7□-LRH	8.7	G・J・K	18	250	4.10	0.200	480
0402CP-9N1□-LRH	9.1	G・J・K	22	250	4.16	0.100	680
0402CP-9N3□-LRH	9.5	G・J・K	18	250	4.00	0.200	480
0402CP-10N□-LRH	10	G・J・K	21	250	3.90	0.200	480
0402CP-11N□-LRH	11	G・J・K	24	250	3.68	0.120	640
0402CP-12N□-LRH	12	G・J・K	24	250	3.60	0.120	640
0402CP-13N□-LRH	13	G・J・K	24	250	3.45	0.210	440
0402CP-15N□-LRH	15	G・J・K	24	250	3.28	0.170	560
0402CP-16N□-LRH	16	G・J・K	24	250	3.10	0.220	560

0402CP series - 2

Mechanical Dimensions: (Unit: mm)



Recommended Patterns

Electrical Specification

0402CP-18N□-LRH	18	G · J · K	25	250	3.10	0.230	420
0402CP-19N□-LRH	19	G · J · K	24	250	3.04	0.200	480
0402CP-20N□-LRH	20	G · J · K	25	250	3.00	0.250	430
0402CP-22N□-LRH	22	G · J · K	25	250	2.80	0.300	400
0402CP-23N□-LRH	23	G · J · K	22	250	3.72	0.300	400
0402CP-24N□-LRH	24	G · J · K	25	250	3.70	0.300	400
0402CP-27N□-LRH	27	G · J · K	24	250	2.48	0.300	400
0402CP-30N□-LRH	30	G · J · K	25	250	2.35	0.300	400
0402CP-33N□-LRH	33	G · J · K	24	250	2.35	0.300	400
0402CP-36N□-LRH	36	G · J · K	24	250	2.32	0.440	320
0402CP-39N□-LRH	39	G · J · K	25	250	2.10	0.550	200
0402CP-40N□-LRH	40	G · J · K	24	250	2.24	0.440	320
0402CP-43N□-LRH	43	G · J · K	25	250	2.03	0.810	100
0402CP-47N□-LRH	47	G · J · K	20	250	2.10	0.830	150
0402CP-51N□-LRH	51	G · J · K	25	250	1.75	0.820	100
0402CP-56N□-LRH	56	G · J · K	22	250	1.76	0.970	100
0402CP-68N□-LRH	68	G · J · K	22	250	1.62	1.120	100
0402CP-82N□-LRH	82	G · J · K	20	250	1.26	1.550	50
0402CP-R10□-LRH	100	G · J · K	20	250	1.16	2.000	30
0402CP-R12□-LRH	120	G · J · K	-	250	1.90	2.000	50

a. Tolerance : K=±10% ; J=±5% ; G=±2%

b. Operating Temp:-40℃ to +125℃

c. For 15℃ Temperature Rise

d. Inductance & Q measured using the HP4291B.

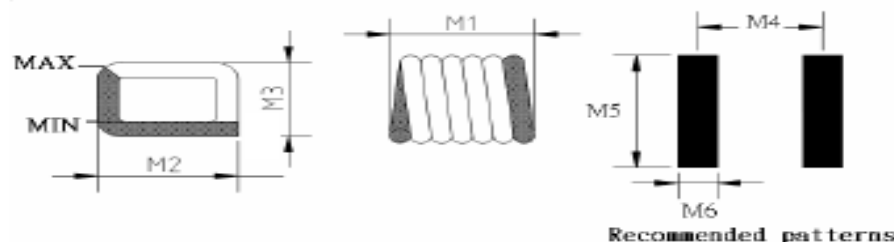
e. SRF measured using the HP8753E or HP8720D.

f. DCR measured using the 16502 milli-ohm meter.

g. Unspecified values available on request

LSQ0806A series

Mechanical Dimensions (Unit: mm)



Mechanical Dimensions & Land Pattern: (Unit:mm)

Part No.	M1	M2	M3	M4	M5	M6
LSQ0806A5N5J4P40	1.346±0.102	1.829±0.254	1.397±0.102	0.962	2.6	0.51
LSQ0806A6N0J4P40	1.295±0.102	1.829±0.254	1.397±0.102	0.990	2.6	0.51
LSQ0806A8N9J4P40	1.626±0.152	1.829±0.254	1.397±0.102	1.270	2.6	0.51
LSQ0806A12NJ4P40	1.930±0.152	1.829±0.254	1.397±0.102	1.630	2.6	0.51
LSQ0806A16NJ4P40	2.286±0.152	1.829±0.254	1.397±0.102	1.960	2.6	0.51
LSQ0806A20NJ4P40	2.591±0.152	1.829±0.254	1.397±0.102	2.290	2.6	0.51

Electrical Specification:

Part No.	Turns	Tolerance	Inductance (nH)	Q (MIN)	Test Freq (MHZ)	DCR (mΩ) Max	SRF (GHZ) Min	Rated current (A) Max
LSQ0806A5N5J4P40	3	J,K	5.5	60	400	3.4	4.9	2.9
LSQ0806A6N0J4P40	3	J,K	6.0	64	400	6.0	5.2	2.9
LSQ0806A8N9J4P40	4	J,K	8.9	90	400	7.0	4.3	2.9
LSQ0806A12NJ4P40	5	J,K	12.3	90	400	8.0	4.8	2.9
LSQ0806A16NJ4P40	6	J,K	15.7	90	400	9.0	4.4	2.9
LSQ0806A20NJ4P40	7	J,K	19.4	90	400	10.0	4.0	2.9

a Tolerance: J:± 5%, K: ± 10%

b Test Frequency: 400MHz, 0.1Vrms.

c Test Equipment:

L/Q : HP-4291B With HP16193A test fixture or equivalent.

SRF: HP8753E or equivalent.

RDC: CHROMA CH-502BC or equivalent.

d Operating temperature range: -40°C to +125°C.

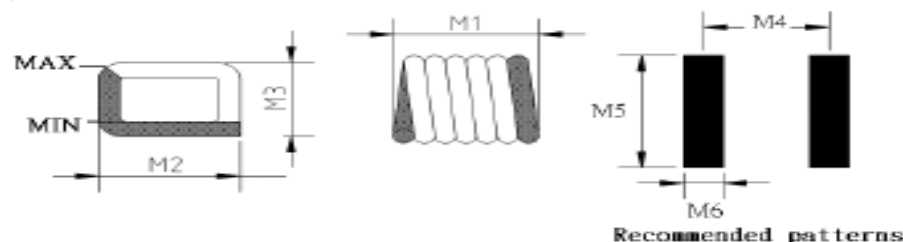
e Electrical specifications at 25°C.

f Storage Temp.: -40°C to +85°C.

g MSL: Level 1

LSQ0807A series

Mechanical Dimensions (Unit: mm)



Mechanical Dimensions & Land Pattern: (Unit:mm)

Part No.	M1	M2	M3	M4	M5	M6
LSQ0807A6N9J4P40	1.295±0.102	1.829±0.254	1.524±0.254	1.02	2.6	0.51
LSQ0807A10NJ4P40	1.626±0.152	1.829±0.254	1.524±0.254	1.32	2.6	0.51
LSQ0807A11NJ4P40	1.549±0.152	1.829±0.254	1.524±0.254	1.24	2.6	0.51
LSQ0807A14NJ4P40	1.930±0.152	1.829±0.254	1.524±0.254	1.57	2.6	0.51
LSQ0807A17NJ4P40	2.286±0.152	1.829±0.254	1.524±0.254	1.93	2.6	0.51
LSQ0807A22NJ4P40	2.591±0.152	1.829±0.254	1.524±0.254	2.29	2.6	0.51

Electrical Specification:

Part No.	Turns	Tolerance	Inductance (nH)	Q (MIN)	Test Freq (MHZ)	DCR (mΩ) Max	SRF (GHZ) Min	Rated current (A) Max
LSQ0807A6N9J4P40	3	J,K	6.9	100	400	6.0	4.6	2.7
LSQ0807A10NJ4P40	4	J,K	10.2	100	400	7.0	4.0	2.7
LSQ0807A11NJ4P40	4	J,K	11.2	90	400	6.3	3.6	2.7
LSQ0807A14NJ4P40	5	J,K	13.7	100	400	8.0	4.3	2.7
LSQ0807A17NJ4P40	6	J,K	17.0	100	400	9.0	4.0	2.7
LSQ0807A22NJ4P40	7	J,K	22.0	100	400	10.0	3.5	2.7

a Tolerance: J:± 5%, K: ± 10%

b Test Frequency:400MHz,0.1Vrms.

c Test Equipment:

L/Q : HP-4291B With HP16193A test fixture or equivalent.

SRF: HP8753E or equivalent.

RDC: CHROMA CH-502BC or equivalent.

d Operating temperature range: -40°C to +125°C.

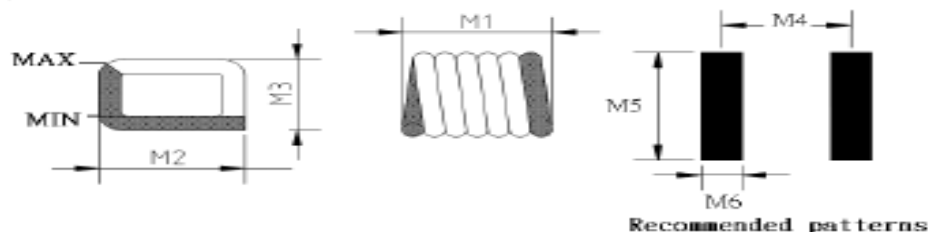
e Electrical specifications at 25°C.

f Storage Temp.: -40°C to +85°C.

g MSL: Level 1

LSQ0908A series

Mechanical Dimensions (Unit: mm)



Mechanical Dimensions & Land Pattern: (Unit:mm)

Part No.	M1	M2	M3	M4	M5	M6
LSQ0908A8N1J7P40	1.473±0.152	2.134±0.152	1.829±0.152	1.12	2.8	0.64
LSQ0908A12NJ7P40	1.854±0.152	2.134±0.152	1.829±0.152	1.45	2.8	0.64
LSQ0908A15NJ7P40	1.549±0.152	2.134±0.152	1.829±0.152	1.24	2.8	0.64
LSQ0908A17NJ7P40	2.210±0.152	2.134±0.152	1.829±0.152	1.83	2.8	0.64
LSQ0908A22NJ7P40	2.565±0.152	2.134±0.152	1.829±0.152	2.18	2.8	0.64
LSQ0908A23NJ7P40	2.235±0.152	2.134±0.152	1.829±0.152	1.90	2.8	0.64
LSQ0908A25NJ7P40	2.972±0.152	2.134±0.152	1.829±0.152	2.57	2.8	0.64
LSQ0908A27NJ7P40	2.972±0.152	2.134±0.152	1.829±0.152	2.57	2.8	0.64

Electrical Specification:

Part No.	Turns	Tolerance	Inductance (nH)	Q (MIN)	Test Freq (MHZ)	DCR (mΩ) Max	SRF (GHZ) Min	Rated current (A) Max
LSQ0908A8N1J7P40	3	J,K	8.1	130	400	6.0	5.2	4.4
LSQ0908A12NJ7P40	4	J,K	12.1	130	400	7.0	4.3	4.4
LSQ0908A15NJ7P40	4	J,K	14.7	90	400	7.2	3.0	4.4
LSQ0908A17NJ7P40	5	J,K	16.6	130	400	8.0	3.4	4.4
LSQ0908A22NJ7P40	6	J,K	21.5	130	400	9.0	3.7	4.4
LSQ0908A23NJ7P40	6	J,K	23.0	130	400	10.0	2.6	4.4
LSQ0908A25NJ7P40	7	J,K	25.0	130	400	10.0	2.5	4.4
LSQ0908A27NJ7P40	7	J,K	27.0	130	400	10.0	3.2	4.4

a Tolerance: J: ± 5%, K: ± 10%

b Test Frequency: 400MHz, 0.1Vrms.

c Test Equipment:

L/Q : HP-4291B With HP16193A test fixture or equivalent.

SRF: HP8753E or equivalent.

RDC: CHROMA CH-502BC or equivalent.

d Operating temperature range: -40°C to +125°C.

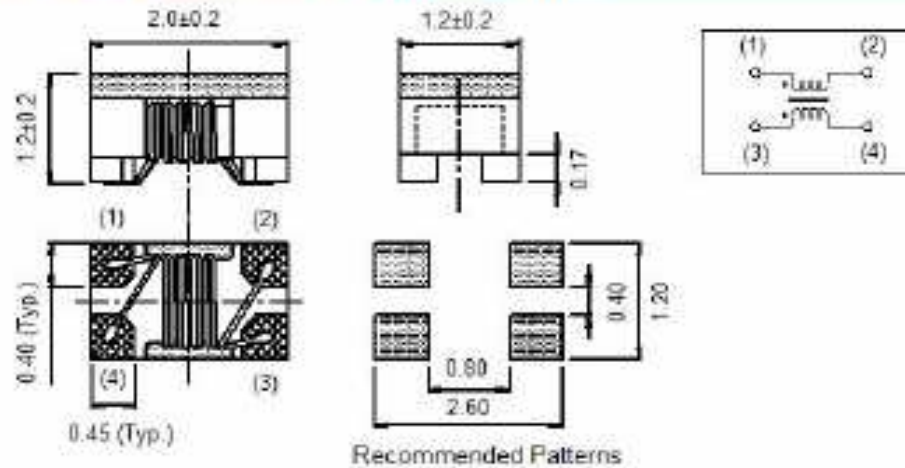
e Electrical specifications at 25°C.

f Storage Temp.: -40°C to +85°C.

g MSL: Level 1

SCM2012FH series for HDMI

Mechanical Dimensions: (Unit: mm)



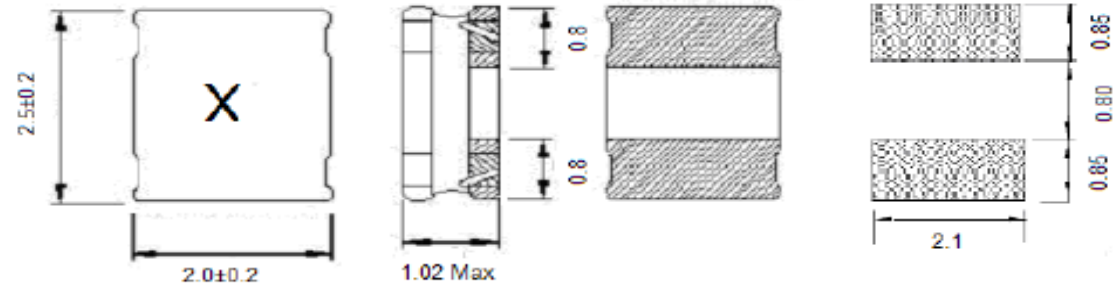
Electrical Specification

Part No.	Impedance (Ω) @100MHz	Rated Current (mA)	DCR (Ω) Max.	Rated Voltage (Vdc)	Withstand Voltage (Vdc)	Insulation Resistance @125VDC (M Ω) min.
SCM2012FH-670M-I-LRH	67	400	0.30	50	125	10
SCM2012FH-900M-I-LRH	90	300	0.40			
SCM2012FH-121M-I-LRH	120	250	0.45			

- a. Tolerance : M=±20%
- b. Small size, low profile.
- c. Various common mode impedance from 67 Ω to 120 Ω .
- d. Operating Temp. : -40 $^{\circ}$ C to +125 $^{\circ}$ C
- e. Storage temperature : -40 $^{\circ}$ C to +125 $^{\circ}$ C
- f. Temperature rise : 15 $^{\circ}$ C
- g. Impedance measured using the HP4291B RF Impedance Analyzer.
- h. DCR measured using the 16502 milli-ohm meter.

CSM0210D series

Mechanical Dimensions (Unit: mm)



Electrical Specification:

PART NO.	MARK	Inductance (μ H)	Test Freq. (MHz)	DCR (Ω)	Idc (A)	Irms (A)	TOL.
				Max	Max.	Max.	
CSM0210D1R0MP00	A	1.0	1	0.1209	2.20	2.20	M:±20% N:±30%
CSM0210D1R5MP00	B	1.5	1	0.1924	1.90	1.80	
CSM0210D2R2MP00	C	2.2	1	0.2314	1.62	1.68	
CSM0210D3R3MP00	D	3.3	1	0.3718	1.22	1.34	
CSM0210D4R7MP00	E	4.7	1	0.5473	1.04	1.02	
CSM0210D5R6MP00	F	5.6	1	0.6253	0.92	0.94	
CSM0210D6R8MP00	G	6.8	1	0.7774	0.90	0.88	
CSM0210D100MP00	H	10	1	1.0361	0.74	0.82	
CSM0210D220MP00	I	22	1	2.3907	0.52	0.52	

a Tolerance: N:± 30%, M: ± 20%

b Test Frequency: 1MHz, 0.2V

c Test Equipment:

L/Q: CHROMA CH-3302, HP 4286A or equivalent.

SRF: HP-4291B or equivalent.

RDC: CHROMA CH-502BC or equivalent.

d Idc: Based on Inductance decrease 30% (at 25°C)

e Irm: Based on Temperature increase 40°C (at 25°C)

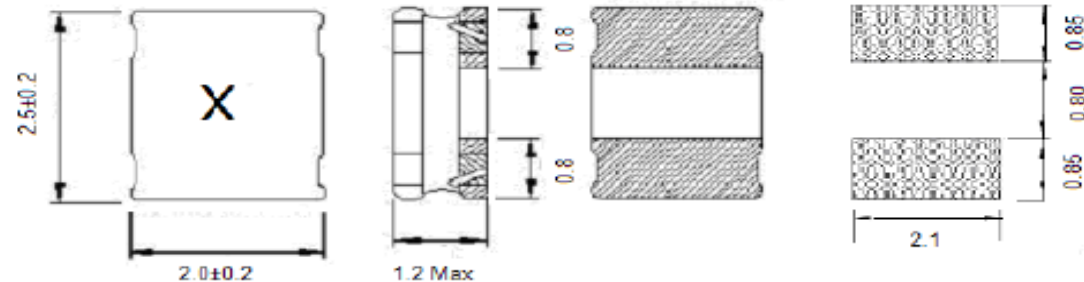
f Operating temperature range: -25°C to +105°C (Including self-temperature rise)

g Storage Temp.: -40°C to +85°C

h MSL: Level 1

CSM0212D series

Mechanical Dimensions (Unit: mm)



Electrical Specification:

PART NO.	MARK	Inductance (μ H)	Test Freq. (MHz)	DCR (Ω)	Idc (A)	Irms (A)	TOL.
				Max	Max.	Max.	
CSM0212D1R0MP00	A	1.0	1	0.1365	2.80	2.20	M:±20% N:±30%
CSM0212D1R5MP00	B	1.5	1	0.1989	2.20	1.86	
CSM0212D2R2MP00	C	2.2	1	0.2847	1.80	1.70	
CSM0212D3R3MP00	D	3.3	1	0.4537	1.30	1.20	
CSM0212D4R7MP00	E	4.7	1	0.6591	1.10	1.04	
CSM0212D5R6MP00	F	5.6	1	0.6825	1.10	1.00	
CSM0212D6R8MP00	G	6.8	1	0.9880	0.94	0.94	
CSM0212D100MP00	H	10	1	1.1895	0.82	0.84	
CSM0212D220MP00	I	22	1	2.7430	0.55	0.54	

a Tolerance: N:± 30%, M: ± 20%

b Test Frequency: 1MHz,0.2V

c Test Equipment:

L/Q : CHROMA CH-3302,HP 4286A or equivalent.

SRF: HP-4291B or equivalent.

RDC: CHROMA CH-502BC or equivalent.

d Idc: Based on Inductance decrease 30% (at 25°C)

e Irm: Based on Temperature increase 40°C (at 25°C)

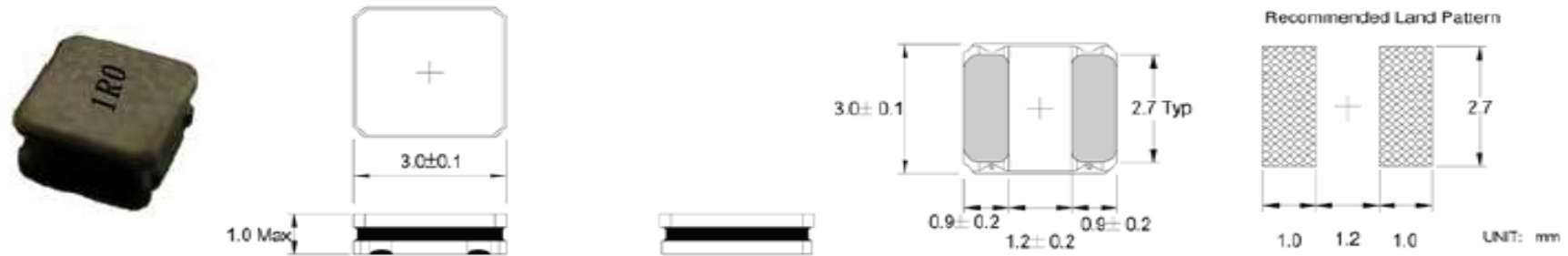
f Operating temperature range: -25°C to +105°C (Including self-temperature rise)

g Storage Temp.: -40°C to +85°C

h MSL: Level 1

CSM0310D series

Mechanical Dimensions (Unit: mm)



Electrical Specification:

Part NO.	MARK	Inductance (μ H)	DCR (Ω)	Isat (A)	Irms (A)	SRF (MHz)	TOL.
			$\pm 30\%$	Max.	Max.	MIN	
CSM0310D1R0NP	1R0	1.0	0.078	1.70	1.525	180	$\pm 30\%$
CSM0310D1R5NP	1R5	1.5	0.096	1.40	1.470	140	
CSM0310D2R2MP	2R2	2.2	0.114	1.25	1.270	100	$\pm 20\%$
CSM0310D3R3MP	3R3	3.3	0.192	0.90	1.130	80	
CSM0310D4R7MP	4R7	4.7	0.228	0.85	0.925	60	
CSM0310D6R8MP	6R8	6.8	0.360	0.66	0.710	50	
CSM0310D100MP	100	10	0.540	0.53	0.630	45	
CSM0310D150MP	150	15	0.888	0.42	0.475	35	
CSM0310D220MP	220	22	1.176	0.36	0.430	25	
CSM0310D330MP	330	33	1.860	0.28	0.345	24	
CSM0310D470MP	470	47	2.400	0.24	0.270	19	

a Tolerance: N: $\pm 30\%$, M: $\pm 20\%$

b Test Frequency: 1MHz, 1V

c Test Equipment:

L/Q: CHROMA CH-3302, HP 4286A or equivalent.

SRF: HP-4291B or equivalent.

RDC: CHROMA CH-502BC or equivalent.

d Isat: Based on Inductance decrease 30% (at 20°C)

e I rms: Based on Temperature increase 40°C (at 20°C)

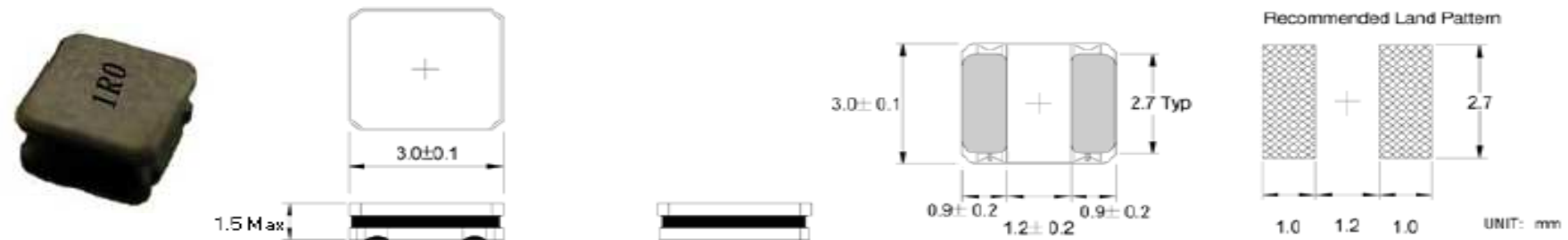
f Operating temperature range: -40°C to +105°C (Including self-temperature rise)

g Storage Temp.: -40°C to +85°C

h MSL: Level 1

CSM0315D series

Mechanical Dimensions (Unit: mm)



Electrical Specification:

Part NO.	MARK	Inductance (μH)	DCR (Ω)	Isat (A)	Irms (A)	SRF (MHz)	TOL.
			$\pm 30\%$	Max.	Max.	MIN	
CSM0315D1R0NP	1R0	1.0	0.048	2.10	2.10	145	$\pm 30\%$
CSM0315D1R5NP	1R5	1.5	0.066	1.80	1.90	130	
CSM0315D2R2MP	2R2	2.2	0.072	1.48	1.60	90	$\pm 20\%$
CSM0315D3R3MP	3R3	3.3	0.112	1.21	1.45	75	
CSM0315D4R7MP	4R7	4.7	0.136	1.08	1.25	65	
CSM0315D6R8MP	6R8	6.8	0.211	0.90	0.90	50	
CSM0315D100MP	100	10	0.276	0.75	0.87	45	
CSM0315D150MP	150	15	0.422	0.58	0.65	33	
CSM0315D220MP	220	22	0.622	0.47	0.55	28	
CSM0315D330MP	330	33	0.959	0.39	0.45	22	
CSM0315D470MP	470	47	1.406	0.32	0.40	18	
CSM0315D101MP	100	100	2.920	0.23	0.25	11	

a Tolerance: N: $\pm 30\%$, M: $\pm 20\%$

b Test Frequency: 1MHz, 1V

c Test Equipment:

L/Q: CHROMA CH-3302, HP 4286A or equivalent.

SRF: HP-4291B or equivalent.

RDC: CHROMA CH-502BC or equivalent.

d Isat: Based on Inductance decrease 30% (at 20°C)

e I rms: Based on Temperature increase 40°C (at 20°C)

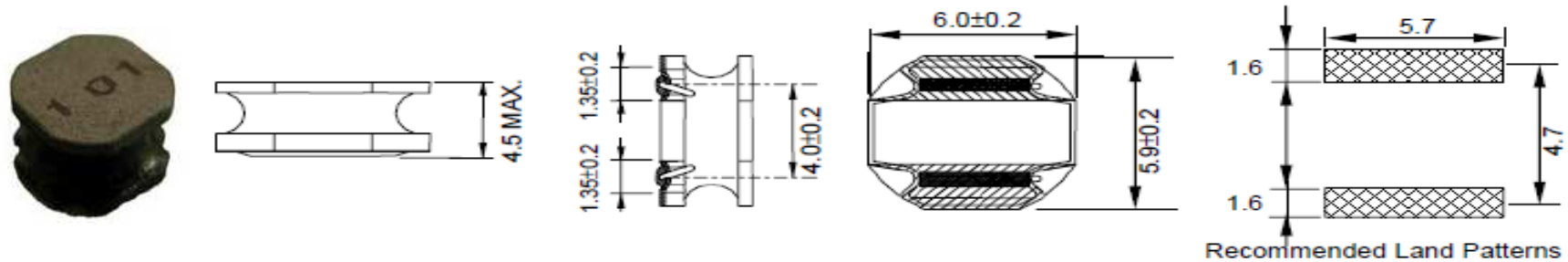
f Operating temperature range: -40°C to +105°C (Including self-temperature rise)

g Storage Temp.: -40°C to +85°C

h MSL: Level 1

CSM0645D series

Mechanical Dimensions (Unit: mm)



Electrical Specification:

Part NO.	MARK	Inductance (μ H)	DCR (Ω)	Isat (A)	Irms (A)	SRF (MHz)	TOL.
			$\pm 30\%$	Max.	Max.	MIN	
CSM0645D1R0NP	1R0	1.0	0.014	8.5	4.2	110	$\pm 30\%$
CSM0645D1R3NP	1R3	1.3	0.016	8.0	4.0	95	
CSM0645D1R8NP	1R8	1.8	0.018	7.0	3.7	80	
CSM0645D2R3NP	2R3	2.3	0.021	6.0	3.5	60	
CSM0645D3R0NP	3R0	3.0	0.024	5.0	3.2	45	
CSM0645D4R5MP	4R5	4.5	0.031	4.0	3.0	25	$\pm 20\%$
CSM0645D6R3MP	6R3	6.3	0.038	3.8	2.8	15	
CSM0645D100MP	100	10	0.047	3.0	2.5	12	
CSM0645D150MP	150	15	0.077	2.3	1.9	10	
CSM0645D220MP	220	22	0.115	1.9	1.5	7	
CSM0645D330MP	330	33	0.145	1.5	1.4	6	
CSM0645D470MP	470	47	0.220	1.3	1.1	5	
CSM0645D680MP	680	68	0.330	1.0	0.9	4	
CSM0645D101MP	101	100	0.500	0.8	0.7	3	

a. Tolerance: N: $\pm 30\%$, M: $\pm 20\%$

b. Test Frequency: 100KHz, 1V

c. Test Equipment:

L/Q: CHROMA-3302.

SRF: HP-4291B or equivalent.

RDC: CH16502BC or equivalent.

d. Isat: Based on Inductance decrease 30%(at20°C)

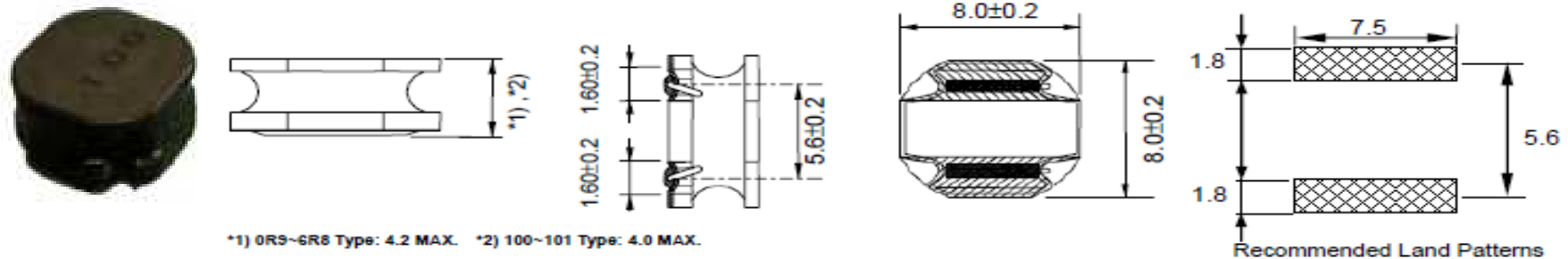
e. Irms: Based on Temperature increase 40°C(at20°C)

f. Operating temperature range: -25°C to +120°C (Including self-temperature rise)

g. Storage Temp.: -40°C to +85°C

CSM0840D series

Mechanical Dimensions (Unit: mm)



Electrical Specification:

Part No.	MARK	Inductance (μ H)	DCR (Ω)	Isat (A)	I _{rms} (A)	SRF (MHz) MIN	TOL
			$\pm 30\%$				
CSM0840D0R9NP	0R9	0.9	0.006	11.0	7.8	85	$\pm 30\%$
CSM0840D1R4NP	1R4	1.4	0.007	9.0	7.0	63	
CSM0840D2R0NP	2R0	2.0	0.009	7.4	6.3	50	
CSM0840D3R6NP	3R6	3.6	0.015	5.3	4.9	34	
CSM0840D4R7NP	4R7	4.7	0.018	4.7	4.1	30	
CSM0840D6R8NP	6R8	6.8	0.025	4.0	3.7	24	
CSM0840D100MP	100	10	0.034	3.4	3.1	22	$\pm 20\%$
CSM0840D150MP	150	15	0.050	2.7	2.4	16	
CSM0840D220MP	220	22	0.066	2.2	2.2	13	
CSM0840D330MP	330	33	0.100	1.9	1.7	12	
CSM0840D470MP	470	47	0.150	1.5	1.4	8	
CSM0840D680MP	680	68	0.230	1.2	1.1	7	
CSM0840D101MP	101	100	0.290	1.0	1.0	6	

a Tolerance: N: $\pm 30\%$, M: $\pm 20\%$

b Test Frequency: 100KHz, 1V

c Test Equipment:

L/Q: CHROMA-3302.

SRF: HP-4291B or equivalent.

RDC: CHROMA-16502BC or equivalent.

d Isat: Based on Inductance decrease 30% (at 20°C)

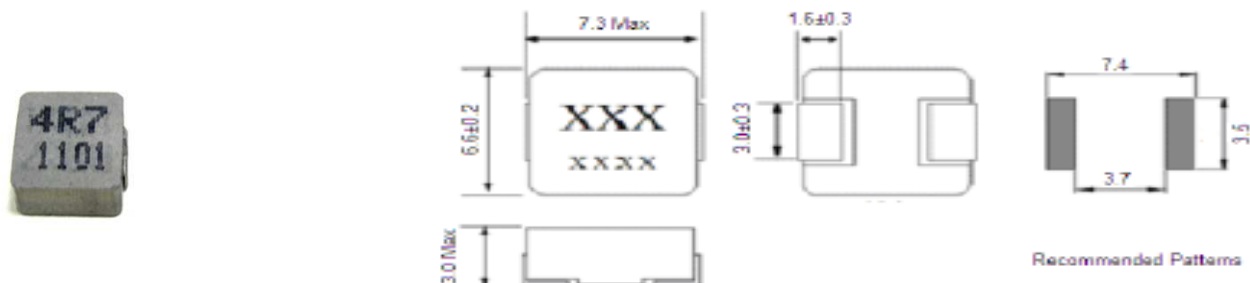
e I_{rms}: Based on Temperature increase 40°C (at 20°C)

f Operating temperature range: -25°C to +120°C (Including self-temperature rise)

g. Storage Temp.: -40°C to +85°C

MCS0630 series

Mechanical Dimensions (Unit: mm)



Electrical Specification:

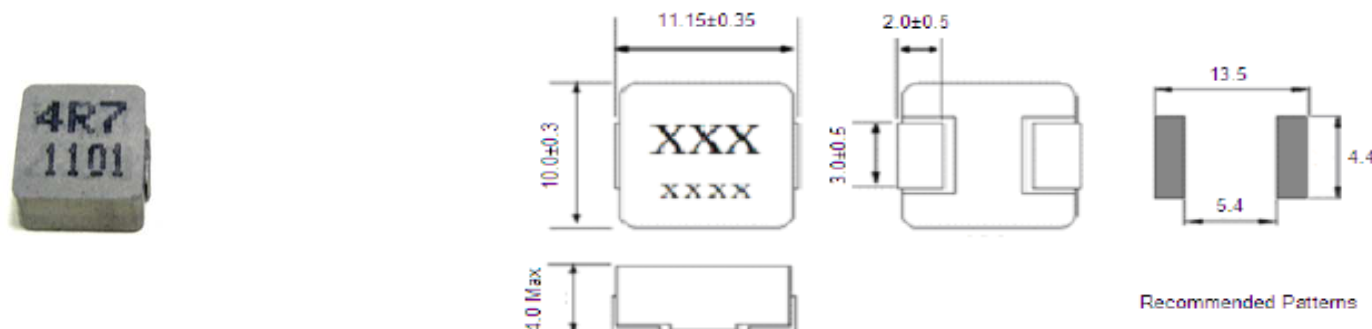
PART NO.	MARK	Inductance (uH)±20%	Test Freq. (KHz)	DCR (mΩ) Typical	DCR (mΩ) Max.	Rated Current (A) Typical	I sat (A) Typical	Tol.
MCS0630R22MPN2	R22	0.22	100	2.50	2.80	23.0	40.0	M
MCS0630R33MPN2	R33	0.33	100	3.50	3.90	20.0	30.0	M
MCS0630R47MPN2	R47	0.47	100	4.00	4.20	17.5	26.0	M
MCS0630R56MPN2	R56	0.56	100	4.70	5.00	16.5	25.5	M
MCS0630R68MPN2	R68	0.68	100	5.00	5.50	15.5	25.0	M
MCS0630R82MPN2	R82	0.82	100	6.70	8.00	13.0	20.0	M
MCS06301R0MPN2	1R0	1.00	100	9.00	10.0	11.0	20.0	M
MCS06301R5MPN2	1R5	1.50	100	14.0	15.0	9.00	16.0	M
MCS06302R2MPN2	2R2	2.20	100	17.0	20.0	8.00	12.0	M
MCS06303R3MPN2	3R3	3.30	100	28.0	30.0	6.00	10.0	M
MCS06304R7MPN2	4R7	4.70	100	37.0	40.0	5.50	7.00	M
MCS06306R8MPN2	6R8	6.80	100	54.0	60.0	4.50	6.50	M
MCS06308R2MPN1	8R2	8.20	100	54.0	60.0	4.50	6.50	M
MCS0630100MPN1	100	10.00	100	62.0	68.0	4.00	5.50	M

TEST INSTRUMENT: Zentech502BC 、Zentech1320+Zentech3305

- (1). All test data is referenced to 25°C ambient.
- (2). Operating Temperature Range-55°C to +125°C.
- (3). Rated current (A)that will cause an approximate ΔT of 40°C.
- (4). Isat (A)that will cause Lo to drop approximately 20%.
- (5). The part temperature(ambient +temp rise)should not exceed 125°C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature Part temperature should be verified in the end application.

MCS1040 series

Mechanical Dimensions (Unit: mm)



Electrical Specification:

PART NO.	MARK	Inductance (uH)±20%	Test Freq. (KHz)	DCR (mΩ) Typical	DCR (mΩ) Max.	Rated Current (A) Typical	I sat (A) Typical	Tol.
MCS1040R36MPN1	R36	0.36	100	1.10	1.20	34.0	40.0	M
MCS1040R47MPN1	R47	0.47	100	1.30	1.55	25.0	35.0	M
MCS1040R56MPN1	R56	0.56	100	1.60	1.80	25.0	32.0	M
MCS1040R68MPN1	R68	0.68	100	2.40	2.70	22.0	30.0	M
MCS1040R88MPN1	R88	0.88	100	2.70	3.00	20.0	30.0	M
MCS10401R0MPN1	1R0	1.00	100	3.00	3.30	18.0	28.0	M
MCS10401R5MPN1	1R5	1.50	100	3.80	4.20	16.0	21.0	M

TEST INSTRUMENT: Zentech502BC 、Zentech1320+Zentech3305

- (1). Tolerance : M:±20% , N:±30%
- (2). Test Freq. : 100KHz , 0.5V
- (3). All test data is referenced to 25°C ambient.
- (4). Operating Temperature Range-55°C to +125°C.
- (5). Rated current (A)that will cause an approximate ΔT of 40°C.
- (6). Isat (A)that will cause Lo to drop approximately 20%.
- (7). The part temperature(ambient +temp rise)should not exceed

125°C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature Part temperature should be verified in the end application.



Thank You