Features:

- Wirewound of ferrite core miniature chip inductor
- LPM1310, 1310-HP and 1813 are high Q value at high frequency and low DC resistance
- LPM1310(C)-HP and 1813(C) are low DC resistance, high current capacity and high impedance characteristics.
  They are excellent for using as a choke coil in DC power supply circuits
- 100% RoHS compliant and lead free without exemption
- Halogen free
- REACH compliant

Applications:

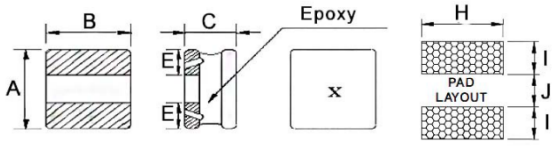
- High frequency communication products
- Personal computers
- Disk drives and computer peripherals
- DC power supply circuits

Inductance and Current Ranges

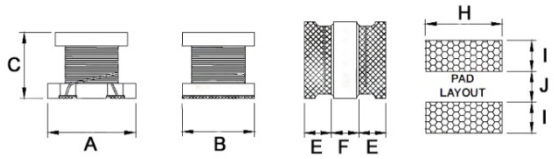
Type / Code	Inductance (µH)	Current Range (A)
LPM1008	1 ~ 22	2.2 ~ 0.5
LPM1008…-HP	1 ~ 22	2.8 ~ 0.55
LPM1010	1 ~ 22	2.3 ~ 0.51
LPM1310	1 ~ 100	1 ~ 0.1
LPM1310…-HP	1 ~ 560	0.445 ~ 0.04
LPM1310(C)	0.47 ~ 120	3.4 ~ 0.17
LPM1310(C)…-HP	1 ~ 560	1 ~ 0.06
LPM1813	1 ~ 2200	0.5 ~ 0.03
LPM1813(C)	1 ~ 470	1.08 ~ 0.09
LPM2220(C)	0.12 ~ 10000	6 ~ 0.05

Electrical specifications at 25 ºC

Mechanical Specifications



Type / Code	A	B	C	E	H	I	J	Unit
LPM1008	0.098 ± 0.008 2.50 ± 0.20	0.079 ± 0.008 2.00 ± 0.20	0.040 max 1.02 max	0.031 ref 0.80 ref	0.079 2.00	0.033 0.85	0.031 0.80	inches mm
LPM1008…-HP	0.098 ± 0.008 2.50 ± 0.20	0.079 ± 0.008 2.00 ± 0.20	0.047 max 1.20 max	0.031 ref 0.80 ref	0.079 2.00	0.033 0.85	0.031 0.80	inches mm



Type / Code	A	B	C	E	F	H	I	J	Unit
LPM1010	0.098 ± 0.008 2.50 ± 0.20	0.098 ± 0.008 2.50 ± 0.20	0.041 max 1.05 max	0.035 ref 0.90 ref	0.028 ref 0.70 ref	0.098 2.50	0.047 1.20	0.031 0.80	inches mm
LPM1310(C)	0.126 ± 0.012 3.20 ± 0.30	0.098 ± 0.008 2.50 ± 0.20	0.061 ± 0.012 1.55 ± 0.30	0.041 ± 0.012 1.05 ± 0.30	0.041 ± 0.012 1.05 ± 0.30	0.079 2.00	0.059 1.50	0.039 1.00	inches mm
LPM1310(C)…-HP	0.126 ± 0.012 3.20 ± 0.30	0.098 ± 0.008 2.50 ± 0.20	0.079 ± 0.012 2.00 ± 0.30	0.028 min 0.70 min	0.028 min 0.70 min	0.079 2.00	0.059 1.50	0.039 1.00	inches mm
LPM1813(C)	0.177 ± 0.012 4.50 ± 0.30	0.126 ± 0.008 3.20 ± 0.20	0.102 ± 0.016 2.60 ± 0.40	0.039 min 1.00 min	0.039 min 1.00 min	0.118 3.00	0.079 2.00	0.047 1.20	inches mm
LPM2220(C)	0.224 ± 0.012 5.70 ± 0.30	0.197 ± 0.012 5.00 ± 0.30	0.185 ± 0.012 4.70 ± 0.30	0.051 min 1.30 min	0.067 min 1.70 min	0.197 5.00	0.079 2.00	0.079 2.00	inches mm

Electrical Specifications – LPM1008							
Type / Code	L (uH)	Tolerance	Test Condition	DCR (Ω) max	I rms (A) typical	I sat (A) typical	Marking Code
LPM1008MT1R0	1.0	20%	1 MHz, 0.1 V	0.121	2.2	2.2	A
LPM1008MT1R5	1.5	20%	1 MHz, 0.1 V	0.193	1.8	1.9	B
LPM1008MT2R2	2.2	20%	1 MHz, 0.1 V	0.232	1.68	1.6	C
LPM1008MT3R3	3.3	20%	1 MHz, 0.1 V	0.372	1.34	1.2	D
LPM1008MT4R7	4.7	20%	1 MHz, 0.1 V	0.548	1	1	E
LPM1008MT5R6	5.6	20%	1 MHz, 0.1 V	0.626	0.9	0.9	F
LPM1008MT6R8	6.8	20%	1 MHz, 0.1 V	0.778	0.9	0.9	G
LPM1008MT100	10	20%	1 MHz, 0.1 V	1.036	0.8	0.7	H
LPM1008MT220	22	20%	1 MHz, 0.1 V	2.391	0.5	0.5	I

Electrical Specifications – LPM1008-HP							
Type / Code	L (uH)	Tolerance	Test Condition	DCR (Ω) max	I rms (A) typical	I sat (A) typical	Marking Code
LPM1008MT1R0-HP	1.0	20%	1 MHz, 0.1 V	0.137	2.2	2.8	A
LPM1008MT1R5-HP	1.5	20%	1 MHz, 0.1 V	0.19	1.86	2.2	B
LPM1008MT2R2-HP	2.2	20%	1 MHz, 0.1 V	0.285	1.7	1.8	C
LPM1008MT3R3-HP	3.3	20%	1 MHz, 0.1 V	0.454	1.2	1.3	D
LPM1008MT4R7-HP	4.7	20%	1 MHz, 0.1 V	0.659	1.04	1.1	E
LPM1008MT5R6-HP	5.6	20%	1 MHz, 0.1 V	0.685	1	1.1	F
LPM1008MT6R8-HP	6.8	20%	1 MHz, 0.1 V	0.988	0.94	0.94	G
LPM1008MT100-HP	10	20%	1 MHz, 0.1 V	1.19	0.84	0.82	H
LPM1008MT220-HP	22	20%	1 MHz, 0.1 V	2.743	0.54	0.55	I

Electrical Specifications – LPM1010						
Type / Code	L (uH)	Tolerance	Test Condition	DCR (Ω) typical	I rms (A) typical	I sat (A) typical
LPM1010MT1R0	1.0	20%	1 MHz, 0.1 V	0.085	1.9	2.30
LPM1010MT1R5	1.5	20%	1 MHz, 0.1 V	0.115	1.5	1.90
LPM1010MT2R2	2.2	20%	1 MHz, 0.1 V	0.168	1	1.50
LPM1010MT3R3	3.3	20%	1 MHz, 0.1 V	0.239	1.1	1.30
LPM1010MT4R7	4.7	20%	1 MHz, 0.1 V	0.316	0.9	1.10
LPM1010MT5R6	5.6	20%	1 MHz, 0.1 V	0.42	0.83	0.98
LPM1010MT6R8	6.8	20%	1 MHz, 0.1 V	0.487	0.80	0.90
LPM1010MT8R2	8.2	20%	1 MHz, 0.1 V	0.548	0.71	0.84
LPM1010MT100	10	20%	1 MHz, 0.1 V	0.61	0.68	0.79
LPM1010MT220	22	20%	1 MHz, 0.1 V	1.552	0.40	0.51

Electrical Specifications – LPM1310						
Type / Code	L (uH)	Tolerance	Test Condition	DCR (Ω) max	IDC (A) max	SRF (MHz) min
LPM1310NT1R0	1.0	30%	1 MHz, 0.1 V	0.078	1	100
LPM1310NT1R5	1.5	30%	1 MHz, 0.1 V	0.068	1.2	100
LPM1310MT2R2	2.2	20%	1 MHz, 0.1 V	0.126	0.79	64
LPM1310MT3R3	3.3	20%	1 MHz, 0.1 V	0.180	0.7	50
LPM1310MT4R7	4.7	20%	1 MHz, 0.1 V	0.195	0.65	43
LPM1310KT100	10	10%	1 MHz, 0.1 V	0.420	0.45	26
LPM1310KT150	15	10%	1 MHz, 0.1 V	0.750	0.3	22
LPM1310KT220	22	10%	1 MHz, 0.1 V	1.000	0.25	19
LPM1310KT330	33	10%	1 MHz, 0.1 V	1.400	0.2	17
LPM1310KT470	47	10%	1 MHz, 0.1 V	2.200	0.17	13
LPM1310KT680	68	10%	1 MHz, 0.1 V	3.200	0.13	9
LPM1310KT101	100	10%	1 MHz, 0.1 V	4.500	0.1	8

Electrical Specifications – LPM1310-HP					
Type / Code	L (uH)	Tolerance	Test Condition	DCR (Ω) max.	IDC (A) max.
LPM1310MT1R0-HP	1.0	20%	1 MHz, 0.1 V	0.5	0.445
LPM1310MT1R2-HP	1.2	20%	1 MHz, 0.1 V	0.6	0.425
LPM1310 _ T1R5-HP	1.5	10%, 20%	1 MHz, 0.1 V	0.6	0.4
LPM1310 _ T1R8-HP	1.8	10%, 20%	1 MHz, 0.1 V	0.7	0.39
LPM1310 _ T2R2-HP	2.2	10%, 20%	1 MHz, 0.1 V	0.8	0.37
LPM1310 _ T2R7-HP	2.7	10%, 20%	1 MHz, 0.1 V	0.9	0.32
LPM1310 _ T3R3-HP	3.3	10%, 20%	1 MHz, 0.1 V	1	0.3
LPM1310 _ T3R9-HP	3.9	10%, 20%	1 MHz, 0.1 V	1.1	0.29
LPM1310 _ T4R7-HP	4.7	10%, 20%	1 MHz, 0.1 V	1.2	0.27
LPM1310 _ T5R6-HP	5.6	10%, 20%	1 MHz, 0.1 V	1.3	0.25
LPM1310 _ T6R8-HP	6.8	10%, 20%	1 MHz, 0.1 V	1.5	0.24
LPM1310 _ T8R2-HP	8.2	10%, 20%	1 MHz, 0.1 V	1.6	0.225
LPM1310 _ T100-HP	10	5%, 10%	1 MHz, 0.1 V	1.8	0.19
LPM1310 _ T120-HP	12	5%, 10%	1 MHz, 0.1 V	2	0.18
LPM1310 _ T150-HP	15	5%, 10%	1 MHz, 0.1 V	2.2	0.17
LPM1310 _ T180-HP	18	5%, 10%	1 MHz, 0.1 V	2.5	0.165
LPM1310 _ T220-HP	22	5%, 10%	1 MHz, 0.1 V	2.8	0.15
LPM1310 _ T270-HP	27	5%, 10%	1 MHz, 0.1 V	3.1	0.125
LPM1310 _ T330-HP	33	5%, 10%	1 MHz, 0.1 V	3.5	0.115
LPM1310 _ T390-HP	39	5%, 10%	1 MHz, 0.1 V	3.9	0.11
LPM1310 _ T470-HP	47	5%, 10%	1 MHz, 0.1 V	4.3	0.1
LPM1310 _ T560-HP	56	5%, 10%	1 MHz, 0.1 V	4.9	0.085
LPM1310 _ T680-HP	68	5%, 10%	1 MHz, 0.1 V	5.5	0.08
LPM1310 _ T820-HP	82	5%, 10%	1 MHz, 0.1 V	6.2	0.07
LPM1310 _ T101-HP	100	5%, 10%	1 MHz, 0.1 V	7	0.08
LPM1310 _ T121-HP	120	5%, 10%	1 MHz, 0.1 V	8	0.075
LPM1310 _ T151-HP	150	5%, 10%	1 MHz, 0.1 V	9.3	0.07
LPM1310 _ T181-HP	180	5%, 10%	1 MHz, 0.1 V	10.2	0.065
LPM1310 _ T221-HP	220	5%, 10%	1 MHz, 0.1 V	11.8	0.065
LPM1310 _ T271-HP	270	5%, 10%	1 MHz, 0.1 V	12.5	0.065
LPM1310 _ T331-HP	330	5%, 10%	1 MHz, 0.1 V	15	0.065
LPM1310 _ T391-HP	390	5%, 10%	1 MHz, 0.1 V	22	0.05
LPM1310 _ T471-HP	470	5%, 10%	1 KHz, 0.1 V	25	0.045
LPM1310 _ T561-HP	560	5%, 10%	1 KHz, 0.1 V	28	0.04

Electrical Specifications – LPM1310(C)							
Type / Code	L (uH)	Tolerance	Test Condition	DCR (Ω) ±20%	I sat (A) max	I rms (A) max	SRF (MHz) min
LPM1310NTCR47	0.47	30%	1 MHz, 0.1 V	0.03	3.4	2.55	100
LPM1310NTC1R0	1.0	30%	1 MHz, 0.1 V	0.045	2.3	2.05	100
LPM1310NTC1R5	1.5	30%	1 MHz, 0.1 V	0.057	1.75	1.75	70
LPM1310NTC2R2	2.2	30%	1 MHz, 0.1 V	0.076	1.55	1.6	70
LPM1310NTC3R3	3.3	30%	1 MHz, 0.1 V	0.12	1.25	1.2	50
LPM1310NTC4R7	4.7	30%	1 MHz, 0.1 V	0.18	1	1	40
LPM1310NTC6R8	6.8	30%	1 MHz, 0.1 V	0.24	0.85	0.85	40
LPM1310MTC100	10	20%	1 MHz, 0.1 V	0.38	0.75	0.7	30
LPM1310MTC150	15	20%	1 MHz, 0.1 V	0.57	0.6	0.52	20
LPM1310MTC220	22	20%	1 MHz, 0.1 V	0.81	0.5	0.45	20
LPM1310MTC330	33	20%	1 MHz, 0.1 V	1.15	0.38	0.39	13
LPM1310MTC470	47	20%	1 MHz, 0.1 V	1.78	0.33	0.31	11
LPM1310MTC680	68	20%	1 MHz, 0.1 V	2.28	0.28	0.275	11
LPM1310MTC101	100	20%	1 MHz, 0.1 V	2.7	0.18	0.25	8
LPM1310MTC121	120	20%	1 MHz, 0.1 V	4.38	0.17	0.2	8

Electrical Specifications – LPM1310(C)-HP					
Type / Code	L (uH)	Tolerance	Test Condition	DCR (Ω) max	IDC (A) max
LPM1310MTC1R0-HP	1.0	20%	1 MHz, 0.1 V	0.078	1
LPM1310MTC2R2-HP	2.2	20%	1 MHz, 0.1 V	0.126	0.79
LPM1310MTC3R3-HP	3.3	20%	1 MHz, 0.1 V	0.165	0.5
LPM1310MTC4R7-HP	4.7	20%	1 MHz, 0.1 V	0.195	0.45
LPM1310MTC6R8-HP	6.8	20%	1 MHz, 0.1 V	0.33	0.45
LPM1310MTC100-HP	10	20%	1 MHz, 0.1 V	0.572	0.3
LPM1310_TC220-HP	22	10%, 20%	1 MHz, 0.1 V	0.923	0.25
LPM1310_TC470-HP	47	10%, 20%	1 MHz, 0.1 V	1.69	0.17
LPM1310_TC101-HP	100	5%, 10%	1 MHz, 0.1 V	4.55	0.1
LPM1310_TC151-HP	150	5%, 10%	1 MHz, 0.1 V	9.1	0.08
LPM1310_TC221-HP	220	5%, 10%	1 MHz, 0.1 V	10.92	0.07
LPM1310_TC331-HP	330	5%, 10%	1 MHz, 0.1 V	13	0.06
LPM1310_TC391-HP	390	5%, 10%	1 MHz, 0.1 V	22.1	0.06
LPM1310_TC471-HP	470	5%, 10%	1 MHz, 0.1 V	24.7	0.06
LPM1310_TC561-HP	560	5%, 10%	1 MHz, 0.1 V	28.6	0.06

Electrical Specifications – LPM1813					
Type / Code	L (uH)	Tolerance	Test Condition	DCR (Ω) max	IDC (A) max
LPM1813MT1R0	1.0	20%	1 MHz, 0.1 V	0.2	0.5
LPM1813MT1R2	1.2	20%	1 MHz, 0.1 V	0.2	0.5
LPM1813MT1R5	1.5	20%	1 MHz, 0.1 V	0.3	0.5
LPM1813MT1R8	1.8	20%	1 MHz, 0.1 V	0.3	0.5
LPM1813MT2R2	2.2	20%	1 MHz, 0.1 V	0.3	0.5
LPM1813MT2R7	2.7	20%	1 MHz, 0.1 V	0.32	0.5
LPM1813MT3R3	3.3	20%	1 MHz, 0.1 V	0.35	0.5
LPM1813MT3R9	3.9	20%	1 MHz, 0.1 V	0.38	0.5
LPM1813_T4R7	4.7	10%, 20%	1 MHz, 0.1 V	0.4	0.5
LPM1813_T5R6	5.6	10%, 20%	1 MHz, 0.1 V	0.47	0.5
LPM1813_T6R8	6.8	10%, 20%	1 MHz, 0.1 V	0.5	0.45
LPM1813_T8R2	8.2	10%, 20%	1 MHz, 0.1 V	0.56	0.45
LPM1813_T100	10	5%, 10%	1 MHz, 0.1 V	0.56	0.4
LPM1813_T120	12	5%, 10%	1 MHz, 0.1 V	0.62	0.38
LPM1813_T150	15	5%, 10%	1 MHz, 0.1 V	0.73	0.36
LPM1813_T180	18	5%, 10%	1 MHz, 0.1 V	0.82	0.34
LPM1813_T220	22	5%, 10%	1 MHz, 0.1 V	0.94	0.32
LPM1813_T270	27	5%, 10%	1 MHz, 0.1 V	1.1	0.3
LPM1813_T330	33	5%, 10%	1 MHz, 0.1 V	1.2	0.27
LPM1813_T390	39	5%, 10%	1 MHz, 0.1 V	1.4	0.24
LPM1813_T470	47	5%, 10%	1 MHz, 0.1 V	1.5	0.22
LPM1813_T560	56	5%, 10%	1 MHz, 0.1 V	1.7	0.2
LPM1813_T680	68	5%, 10%	1 MHz, 0.1 V	1.9	0.18
LPM1813_T820	82	5%, 10%	1 MHz, 0.1 V	2.2	0.17
LPM1813_T101	100	5%, 10%	1 MHz, 0.1 V	2.5	0.16
LPM1813_T121	120	5%, 10%	1 MHz, 0.1 V	3	0.15
LPM1813_T151	150	5%, 10%	1 MHz, 0.1 V	3.7	0.13
LPM1813_T181	180	5%, 10%	1 MHz, 0.1 V	4.5	0.12
LPM1813_T221	220	5%, 10%	1 MHz, 0.1 V	5.4	0.11
LPM1813_T271	270	5%, 10%	1 MHz, 0.1 V	6.8	0.1
LPM1813_T331	330	5%, 10%	1 MHz, 0.1 V	8.2	0.095
LPM1813_T391	390	5%, 10%	1 MHz, 0.1 V	9.7	0.09
LPM1813_T471	470	5%, 10%	1 KHz, 0.1 V	11.8	0.08
LPM1813_T561	560	5%, 10%	1 KHz, 0.1 V	14.5	0.07

Electrical Specifications – LPM1813 (cont.)					
Type / Code	L (uH)	Tolerance	Test Condition	DCR (Ω) max	IDC (A) max
LPM1813_T681	680	5%, 10%	1 KHz, 0.1 V	17	0.065
LPM1813_T821	820	5%, 10%	1 KHz, 0.1 V	20.5	0.06
LPM1813_T102	1000	5%, 10%	1 KHz, 0.1 V	25	0.05
LPM1813_T122	1200	5%, 10%	1 KHz, 0.1 V	30	0.045
LPM1813_T152	1500	5%, 10%	1 KHz, 0.1 V	37	0.04
LPM1813_T182	1800	5%, 10%	1 KHz, 0.1 V	45	0.035
LPM1813_T222	2200	5%, 10%	1 KHz, 0.1 V	50	0.03

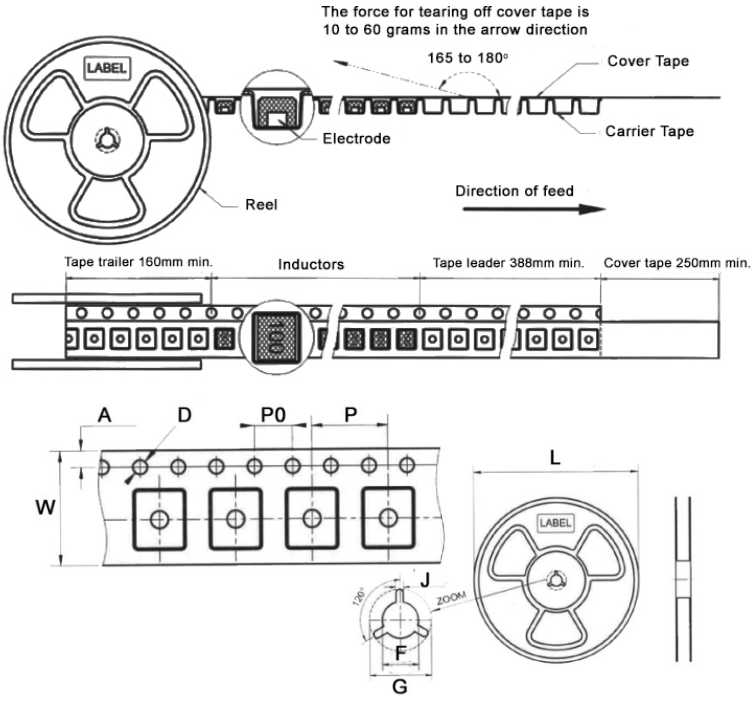
Electrical Specifications – LPM1813(C)					
Type / Code	L (uH)	Tolerance	Test Condition	DCR (Ω) max	IDC (A) max
LPM1813MTC1R0	1.0	20%	1 MHz, 0.1 V	0.08	1.08
LPM1813MTC1R5	1.5	20%	1 MHz, 0.1 V	0.09	1
LPM1813MTC2R2	2.2	20%	1 MHz, 0.1 V	0.11	0.9
LPM1813MTC3R3	3.3	20%	1 MHz, 0.1 V	0.13	0.8
LPM1813_TC4R7	4.7	10%, 20%	1 MHz, 0.1 V	0.15	0.75
LPM1813_TC6R8	6.8	10%, 20%	1 MHz, 0.1 V	0.2	0.72
LPM1813_TC100	10	5%, 10%	1 MHz, 0.1 V	0.24	0.65
LPM1813_TC150	15	5%, 10%	1 MHz, 0.1 V	0.32	0.57
LPM1813_TC220	22	5%, 10%	1 MHz, 0.1 V	0.6	0.42
LPM1813_TC330	33	5%, 10%	1 MHz, 0.1 V	1	0.31
LPM1813_TC470	47	5%, 10%	1 MHz, 0.1 V	1.1	0.28
LPM1813_TC680	68	5%, 10%	1 MHz, 0.1 V	1.7	0.22
LPM1813_TC101	100	5%, 10%	1 MHz, 0.1 V	2.2	0.19
LPM1813_TC151	150	5%, 10%	1 MHz, 0.1 V	3.5	0.13
LPM1813_TC221	220	5%, 10%	1 MHz, 0.1 V	4	0.11
LPM1813_TC331	330	5%, 10%	1 MHz, 0.1 V	6.8	0.1
LPM1813_TC471	470	5%, 10%	1 KHz, 0.1 V	8.5	0.09

Electrical Specifications – LPM2220(C)					
Type / Code	L (uH)	Tolerance	Test Condition	DCR (Ω) max	IDC (A) max
LPM2220MTCR12	0.12	20%	1 MHz, 0.1 V	0.0098	6
LPM2220MTCR27	0.27	20%	1 MHz, 0.1 V	0.014	5.3
LPM2220MTCR47	0.47	20%	1 MHz, 0.1 V	0.0182	4.8
LPM2220MTC1R0	1.0	20%	1 MHz, 0.1 V	0.027	4
LPM2220MTC1R5	1.5	20%	1 MHz, 0.1 V	0.031	3.7
LPM2220MTC2R2	2.2	20%	1 MHz, 0.1 V	0.041	3.2
LPM2220MTC3R3	3.3	20%	1 MHz, 0.1 V	0.05	2.9
LPM2220MTC4R7	4.7	20%	1 MHz, 0.1 V	0.574	2.7
LPM2220MTC6R8	6.8	20%	1 MHz, 0.1 V	0.104	2
LPM2220_TC100	10	10%, 20%	1 MHz, 0.1 V	0.13	1.7
LPM2220_TC150	15	10%, 20%	1 MHz, 0.1 V	0.21	1.4
LPM2220_TC220	22	10%, 20%	1 MHz, 0.1 V	0.266	1.2
LPM2220_TC270	27	10%, 20%	1 MHz, 0.1 V	0.3	1
LPM2220_TC330	33	10%, 20%	1 MHz, 0.1 V	0.448	0.9
LPM2220_TC470	47	10%, 20%	1 MHz, 0.1 V	0.56	0.8
LPM2220_TC680	68	10%, 20%	1 MHz, 0.1 V	0.938	0.64
LPM2220_TC101	100	10%, 20%	100 KHz, 0.1 V	1.204	0.56
LPM2220_TC151	150	10%, 20%	100 KHz, 0.1 V	2.66	0.42
LPM2220_TC221	220	10%, 20%	100 KHz, 0.1 V	3.36	0.32
LPM2220_TC331	330	10%, 20%	100 KHz, 0.1 V	6.16	0.27
LPM2220_TC471	470	10%, 20%	100 KHz, 0.1 V	7.56	0.24

Electrical Specifications – LPM2220(C) (cont.)

Type / Code	L (uH)	Tolerance	Test Condition	DCR (Ω) max	IDC (A) max
LPM2220 _ TC681	680	10%, 20%	100 KHz, 0.1 V	11.34	0.19
LPM2220 _ TC102	1000	10%, 20%	10 KHz, 0.1 V	14.42	0.15
LPM2220 _ TC222	2200	10%, 20%	10 KHz, 0.1 V	30.1	0.1
LPM2220 _ TC472	4700	10%, 20%	10 KHz, 0.1 V	61.04	0.07
LPM2220 _ TC103	10000	10%, 20%	10 KHz, 0.1 V	140	0.05

Packaging Specifications



Type / Code	A	D	P0	P	W	F	G	J	L	Unit
LPM1008	0.069 ± 0.004	0.059 ± 0.004	0.157 ± 0.004	0.157	0.315	0.512 ± 0.039	0.906 ± 0.039	0.098 ± 0.020	12.992 ± 7.008	Inches
	1.75 ± 0.10	1.50 ± 0.10	4.00 ± 0.10	4.00	8.00	13.00 ± 1.00	23.00 ± 1.00	2.50 ± 0.50	330.00 ± 178.00	mm
LPM1008(HP)	0.069 ± 0.004	0.059 ± 0.004	0.157 ± 0.004	0.157	0.315	0.512 ± 0.039	0.906 ± 0.039	0.098 ± 0.020	12.992 ± 7.008	Inches
	1.75 ± 0.10	1.50 ± 0.10	4.00 ± 0.10	4.00	8.00	13.00 ± 1.00	23.00 ± 1.00	2.50 ± 0.50	330.00 ± 178.00	mm
LPM1010	0.069 ± 0.004	0.059 ± 0.004	0.157 ± 0.004	0.157	0.315	0.512 ± 0.039	0.906 ± 0.039	0.098 ± 0.020	12.992 ± 7.008	Inches
	1.75 ± 0.10	1.50 ± 0.10	4.00 ± 0.10	4.00	8.00	13.00 ± 1.00	23.00 ± 1.00	2.50 ± 0.50	330.00 ± 178.00	mm
LPM1310	0.069 ± 0.004	0.059 ± 0.004	0.157 ± 0.004	0.157	0.315	0.512 ± 0.039	0.906 ± 0.039	0.098 ± 0.020	12.992 ± 7.008	Inches
	1.75 ± 0.10	1.50 ± 0.10	4.00 ± 0.10	4.00	8.00	13.00 ± 1.00	23.00 ± 1.00	2.50 ± 0.50	330.00 ± 178.00	mm
LPM1310(HP)	0.069 ± 0.004	0.059 ± 0.004	0.157 ± 0.004	0.315	0.472	0.512 ± 0.039	0.906 ± 0.039	0.098 ± 0.020	12.992 ± 7.008	Inches
	1.75 ± 0.10	1.50 ± 0.10	4.00 ± 0.10	8.00	12.00	13.00 ± 1.00	23.00 ± 1.00	2.50 ± 0.50	330.00 ± 178.00	mm
LPM1813	0.069 ± 0.004	0.059 ± 0.004	0.157 ± 0.004	0.315	0.472	0.512 ± 0.039	0.906 ± 0.039	0.098 ± 0.020	12.992 ± 7.008	Inches
	1.75 ± 0.10	1.50 ± 0.10	4.00 ± 0.10	8.00	12.00	13.00 ± 1.00	23.00 ± 1.00	2.50 ± 0.50	330.00 ± 178.00	mm
LPM2220	0.069 ± 0.004	0.059 ± 0.004	0.157 ± 0.004	0.472	0.630	0.512 ± 0.039	0.906 ± 0.039	0.098 ± 0.020	12.992 ± 7.008	Inches
	1.75 ± 0.10	1.50 ± 0.10	4.00 ± 0.10	12.00	16.00	13.00 ± 1.00	23.00 ± 1.00	2.50 ± 0.50	330.00 ± 178.00	mm

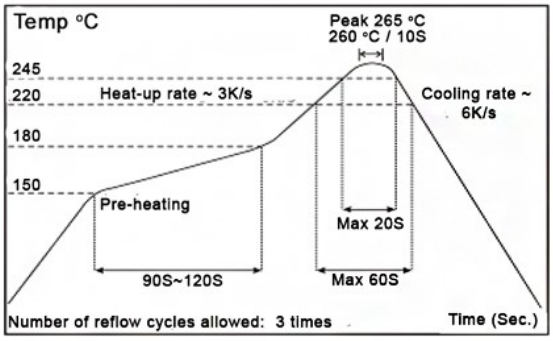
Environmental Specifications - General

Items	Specifications
Shelf Storage Conditions	Temperature range: 25 ± 3 °C. Humidity: < 80% relative humidity. Recommended product should be used within six months from the time of delivery.
Operating Temperature Range	-40 ºC to +125 ºC

Environmental Test		
Test	Test Specification	Test Condition
High Temperature Storage Test	No case deformation or change in appearance. Δ L/L ≤10%	Temperature 85 ± 2 °C Time: 48 ± 2 hours Tested after 1 hour at room temperature
Low Temperature Storage Test		Temperature -25 ± 2 °C Time: 48 ± 2 hours Tested after 1 hour at room temperature
Humidity Test		Temperature 40 ± 2 °C, 90 ~ 95% relative humidity Time: 96 ± 2 hours Tested after 1 hour at room temperature
Thermal Shock Test		First -25 °C 30 minutes, then 2 5°C 10 minutes, last 85 °C 30 minutes, as 1 cycle. Go through 5 cycles. Tested after 1 hour at room temperature

Mechanical Test		
Test	Test Specification	Test Condition
Solderability Test	Terminal area must have 90% minimum solder coverage	Product with lead-free terminal: Dip pads in flux then dip in solder pot at 245 ± 5 °C for 3 seconds
Resistance to Soldering Heat	No case deformation or change in appearance	Flux should cover the whole of the sample before heating, then be preheated for about 2 minutes over temperature of 130 ~ 150 °C. immersing to 260 ± 5 °C for 10 seconds
Vibration Test	No case deformation or change in appearance Δ L/L ≤ 10%	Apply frequency 10 ~ 55 Hz 1.5 mm amplitude in each of perpendicular direction for 2 hours
Shock Resistance		Drop down with 981 m/s^2 (100 G) shock attitude upon a rubber block method shock testing machine for 1 time in each of three orientations.

Reflow Chart:



RoHS Compliance

Stackpole Electronics has joined the worldwide effort to reduce the amount of lead in electronic components and to meet the various regulatory requirements now prevalent, such as the European Union's directive regarding "Restrictions on Hazardous Substances" (RoHS 3). As part of this ongoing program, we periodically update this document with the status regarding the availability of our compliant components. All our standard part numbers are compliant to EU Directive 2011/65/EU of the European Parliament as amended by Directive (EU) 2015/863/EU as regards the list of restricted substances.

RoHS Compliance Status						
Standard Product Series	Description	Package / Termination Type	Standard Series RoHS Compliant	Lead-Free Termination Composition	Lead-Free Mfg. Effective Date (Std Product Series)	Lead-Free Effective Date Code (YY/WW)
LPM	Miniature Wirewound Surface Mount Power Inductor	SMD	YES	100% Matte Sn	Aug-05	05/31

"Conflict Metals" Commitment

We at Stackpole Electronics, Inc. are joined with our industry in opposing the use of metals mined in the "conflict region" of the eastern Democratic Republic of the Congo (DRC) in our products. Recognizing that the supply chain for metals used in the electronics industry is very complex, we work closely with our own suppliers to verify to the extent possible that the materials and products we supply do not contain metals sourced from this conflict region. As such, we are in compliance with the requirements of Dodd-Frank Act regarding Conflict Minerals.

Compliance to "REACH"

We certify that all passive components supplied by Stackpole Electronics, Inc. are SVHC (Substances of Very High Concern) free and compliant with the requirements of EU Directive 1907/2006/EC, "The Registration, Evaluation, Authorization and Restriction of Chemicals", otherwise referred to as REACH. Contact us for complete list of REACH Substance Candidate List.

Environmental Policy

It is the policy of Stackpole Electronics, Inc. (SEI) to protect the environment in all localities in which we operate. We continually strive to improve our effect on the environment. We observe all applicable laws and regulations regarding the protection of our environment and all requests related to the environment to which we have agreed. We are committed to the prevention of all forms of pollution.

How to Order

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
L	P	M	1	3	1	0	M	T	C	1	R	0	-	H	P

Product Series
LPM

Size	
Code	Dimension (mm)
1008	2.5 x 2 x 1.02
1008-HP	2.5 x 2 x 1.2
1010	2.5 x 2.5 x 1.05
1310	3.2 x 2.5 x 1.55
1310-HP	3.2 x 2.5 x 2
1813	4.5 x 3.2 x 2.6
2220	5.7 x 5 x 4.7

Tolerance	
Code	Description
J	5%
K	10%
M	20%
N	30%

Packaging			
Code	Description	Size	Quantity
T	7" Tape and Reel	1008 1008(HP) 1010 1310	2000
		1310(HP)	1000
		1813	500
	13" Tape and Reel	2220	1000

Special	
Code	Description
(blank)	General Use
C	Choke Use

Inductance	
Code	Description
R12	0.12µH
120	12µH
101	100µH
102	1000µH

Special	
Code	Description
(blank)	Standard
-HP	High Profile

Legacy Part Number:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
V	L	H	4	5	3	2	2	6	C	-	1	0	1	K

Product Series	
VLH	SMD Choke Chip

Code	Dimension
252010	2.5x2.0x1.02
252012	2.5x2.0x1.2
252510	2.5x2.5x1.05
322515(C)	3.2x2.5x1.55
322520(C)	3.2x2.5x2.0
453226(C)	4.5x3.2x2.6
575047(C)	5.7x5.0x4.7

Special	
Code	Description
Blank	General Use
C	Choke Use

Special	
Code	Description
-	Standard
S	Shielded

Inductance	
Code	Inductance
R12	0.12µH
120	12µH
101	100µH
102	1000µH

Tolerance	
Code	Tol
J	± 5%
K	± 10%
M	± 20%
N	± 30%