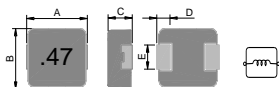




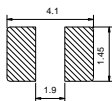
FEATURES

1. Carbonyl powder inductor.
2. Compact design.
3. High current · low DCR · high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

DIMENSIONS (mm)



Recommend PC Board Pattern



Note:

1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.12mm and above.

Part No.	Size (mm)				
	A	B	C	D	E
SRPI 0302M	3.5 ± 0.2	3.2 ± 0.2	1.8 ± 0.2	0.7 ± 0.2	1.2 ± 0.2
SRPI 0312M	3.5 ± 0.2	3.2 ± 0.2	1.0 ± 0.2	0.7 ± 0.2	1.2 ± 0.2

SERIES LIST

No.	Part No.	L (μ H)	TOL (%)	RDC (m Ω)		I sat (A)	
				Typ.	Max.	Typ.	Typ.
1	SRPI 0302M-R10N	0.10	\pm 30	6.6	9	14.0	10.5
2	SRPI 0302M-R22N	0.22	\pm 30	11.0	14	11.2	9.0
3	SRPI 0302M-R33M	0.33	\pm 20	17.0	21	10.0	8.0
4	SRPI 0302M-R47M	0.47	\pm 20	19.7	23	9.0	7.0
5	SRPI 0302M-R68M	0.68	\pm 20	25.5	29	7.0	5.5
6	SRPI 0302M-1R0M	1.00	\pm 20	32	38	5.0	4.0
7	SRPI 0302M-1R5M	1.50	\pm 20	42	50	4.0	3.8
8	SRPI 0302M-2R2M	2.20	\pm 20	65	75	3.7	3.5
9	SRPI 0302M-3R3M	3.30	\pm 20	125	145	3.5	3.0
10	SRPI 0302M-4R7M	4.70	\pm 20	172	200	3.0	2.6
11	SRPI 0302M-5R6M	5.60	\pm 20	205	238	2.6	2.2
12	SRPI 0302M-6R8M	6.80	\pm 20	260	300	2.2	1.9
13	SRPI 0302M-8R2M	8.20	\pm 20	340	390	1.9	1.6
14	SRPI 0302M-100M	10.0	\pm 20	366	422	1.6	1.4
1	SRPI 0312M-R47M	0.47	\pm 20	25	30	7.2	5.0
2	SRPI 0312M-R56M	0.56	\pm 20	31	36	6.6	4.5
3	SRPI 0312M-R68M	0.68	\pm 20	34	40	6.1	4.0
4	SRPI 0312M-R82M	0.82	\pm 20	41	48	5.8	3.5
5	SRPI 0312M-1R0M	1.00	\pm 20	50	60	5.5	3.3
6	SRPI 0312M-1R5M	1.50	\pm 20	71	85	4.0	3.0
7	SRPI 0312M-2R2M	2.20	\pm 20	98	115	3.4	2.7
8	SRPI 0312M-3R3M	3.30	\pm 20	191	210	3.1	2.0
9	SRPI 0312M-4R7M	4.70	\pm 20	266	293	2.8	1.6
10	SRPI 0312M-5R6M	5.60	\pm 20	310	360	2.2	1.5
11	SRPI 0312M-6R8M	6.80	\pm 20	360	400	2.0	1.4
12	SRPI 0312M-8R2M	8.20	\pm 20	420	463	1.7	1.2
13	SRPI 0312M-100M	10.0	\pm 20	498	550	1.4	1.0

Note:

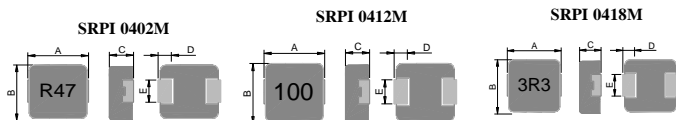
1. Test Frequency: 100KHz /1V
2. All test data referenced to 25 $^{\circ}$ C ambient
3. Saturation Current (Isat) will cause L0 to drop approximately 30%.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately Δ T of 40 $^{\circ}$ C
5. The part temperature (ambient + temp rise) should not exceed 125 $^{\circ}$ C under worst case operating conditions.
Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
6. Special inquiries besides the above common used types can be met on your requirement.



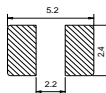
FEATURES

1. Carbonyl powder inductor.
2. Compact design.
3. High current · low DCR · high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

DIMENSIONS (mm)



Recommend PC Board Pattern



Note:

1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.12mm and

Part No.	Size (mm)				
	A	B	C	D	E
SRPI 0402M	4.45 ± 0.25	4.06 ± 0.25	1.8 ± 0.2	0.76 ± 0.3	2.0 ± 0.2
SRPI 0412M	4.45 ± 0.25	4.06 ± 0.25	1.0 ± 0.2	0.76 ± 0.3	2.0 ± 0.2
SRPI 0418M	4.45 ± 0.25	4.06 ± 0.25	1.6 ± 0.2	0.76 ± 0.3	2.0 ± 0.2

No.	Part No.	L (μ H)	TOL (%)	RDC (m Ω)		I sat (A)	I rms (A)
				Typ.	Max.	Typ.	Typ.
1	SRPI 0402M-R10N	0.10	\pm 30	3.2	4.0	35.0	12.0
2	SRPI 0402M-R18N	0.18	\pm 30	4.6	5.4	28.0	13.5
3	SRPI 0402M-R22N	0.22	\pm 30	6.6	7.3	24.0	13.0
4	SRPI 0402M-R33M	0.33	\pm 20	7.8	8.6	18.0	10.0
5	SRPI 0402M-R47M	0.47	\pm 20	11.2	14	12.0	8.0
6	SRPI 0402M-R56M	0.56	\pm 20	13.5	16	10.0	7.3
7	SRPI 0402M-R68M	0.68	\pm 20	16	19	10.0	7.0
8	SRPI 0402M-1R0M	1.00	\pm 20	22	27	8.5	5.0
9	SRPI 0402M-1R2M	1.20	\pm 20	25	30	7.8	4.8
10	SRPI 0402M-1R5M	1.50	\pm 20	35	42	7.0	4.5
11	SRPI 0402M-2R2M	2.20	\pm 20	51	61	6.0	4.0
12	SRPI 0402M-3R3M	3.30	\pm 20	69	76	4.0	3.5
13	SRPI 0402M-4R7M	4.70	\pm 20	95	105	3.5	2.6
14	SRPI 0402M-5R6M	5.60	\pm 20	112	125	3.0	2.2
15	SRPI 0402M-6R8M	6.80	\pm 20	150	172	2.8	2.1
16	SRPI 0402M-8R2M	8.20	\pm 20	158	180	2.5	2.0
17	SRPI 0402M-100M	10.0	\pm 20	215	243	2.3	1.8
18	SRPI 0402M-150M	15.0	\pm 20	325	374	1.9	1.5
19	SRPI 0402M-220M	22.0	\pm 20	470	500	1.4	1.2
1	SRPI 0412M-R10N	0.10	\pm 30	4.3	5.5	25.0	11.5
2	SRPI 0412M-R15N	0.15	\pm 30	5.5	6.8	21.5	10.0
3	SRPI 0412M-R22M	0.22	\pm 20	6.6	8.0	20.0	8.5
4	SRPI 0412M-R33M	0.33	\pm 20	13.6	16.0	11.0	7.0
5	SRPI 0412M-R36M	0.36	\pm 20	15.5	18.0	8.5	6.5
6	SRPI 0412M-R47M	0.47	\pm 20	18.0	20.0	6.5	6.0
7	SRPI 0412M-R60M	0.60	\pm 20	22.5	26.0	6.0	5.3
8	SRPI 0412M-R68M	0.68	\pm 20	32.0	37.0	6.0	5.0
9	SRPI 0412M-1R0M	1.00	\pm 20	41.0	47.0	6.0	4.0
10	SRPI 0412M-1R2M	1.20	\pm 20	48.0	56.0	5.0	3.5
11	SRPI 0412M-1R5M	1.50	\pm 20	55.0	63.3	4.0	3.0
12	SRPI 0412M-2R2M	2.20	\pm 20	69.2	80	3.5	2.8
13	SRPI 0412M-3R3M	3.30	\pm 20	84.0	97	3.0	2.3
14	SRPI 0412M-4R7M	4.70	\pm 20	128	145	2.5	2.0
15	SRPI 0412M-5R6M	5.60	\pm 20	180	208	2.3	1.7
16	SRPI 0412M-6R8M	6.80	\pm 20	300	360	1.7	1.5
17	SRPI 0412M-8R2M	8.20	\pm 20	313	376	1.6	1.4
18	SRPI 0412M-100M	10.0	\pm 20	410	463	1.4	1.3
19	SRPI 0412M-220M	22.0	\pm 20	950	1050	1.0	0.8
1	SRPI 0418M-R56M	0.56	\pm 20	16	20	9.0	6.0
2	SRPI 0418M-R68M	0.68	\pm 20	18.5	22	8.5	5.8
3	SRPI 0418M-1R0M	1.00	\pm 20	24.5	30	6.9	4.8
4	SRPI 0418M-2R2M	2.20	\pm 20	39	45	4.2	3.5
5	SRPI 0418M-3R3M	3.30	\pm 20	82	100	3.6	3.0
6	SRPI 0418M-4R7M	4.70	\pm 20	106	130	3.0	2.3
7	SRPI 0418M-5R6M	5.60	\pm 20	125	150	2.8	2.1
8	SRPI 0418M-6R8M	6.80	\pm 20	150	180	2.6	1.95
9	SRPI 0418M-8R2M	8.20	\pm 20	198	235	2.4	1.80
10	SRPI 0418M-100M	10.0	\pm 20	220	265	2.1	1.65

Note:

1. Test Frequency: 100KHz /1V
2. All test data referenced to 25 $^{\circ}$ C ambient
3. Saturation Current (Isat) will cause L0 to drop approximately 30%.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately Δ T of 40 $^{\circ}$ C
5. The part temperature (ambient + temp rise) should not exceed 125 $^{\circ}$ C under worst case operating conditions.
Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
6. Special inquiries besides the above common used types can be met on your requirement.

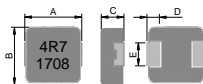


FEATURES

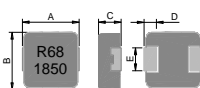
1. Carbonyl powder inductor.
2. Compact design.
3. High current · low DCR · high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
7. Operating temperature -40~+125°C
(Including self - temperature rise)

DIMENSIONS (mm)

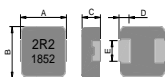
SRPI 0503M



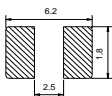
SRPI 0515M



SRPI 0518M



Recommend PC Board Pattern



Note:

1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.12mm and above.

Part No.	Size (mm)				
	A	B	C	D	E
SRPI 0503M	5.7 ± 0.3	5.2 ± 0.2	2.8 ± 0.2	1.1 ± 0.3	1.5 ± 0.2
SRPI 0515M	5.7 ± 0.3	5.2 ± 0.2	1.3 ± 0.2	1.1 ± 0.3	2.5 ± 0.3
SRPI 0518M	5.7 ± 0.3	5.2 ± 0.2	1.6 ± 0.2	1.1 ± 0.3	2.5 ± 0.3

SERIES LIST

No.	Part No.	L	TOL.	RDC (mΩ)		I _{sat} (A)	I _{rms} (A)	Type
		(μH)	(%)	Typ.	Max.	Typ.	Typ.	
1	SRPI 0503M-R10N	0.10	±30	2.50	3.00	27.0	23.0	leadframe
2	SRPI 0503M-R20M	0.20	±20	2.60	3.20	25.0	16.0	leadframe
3	SRPI 0503M-R22M	0.22	±20	3.70	4.40	21.0	15.5	leadframe
4	SRPI 0503M-R33M	0.33	±20	4.30	5.00	18.0	14.0	leadframe
5	SRPI 0503M-R47M	0.47	±20	6.40	7.40	16.0	12.0	leadframe
6	SRPI 0503M-R56M	0.56	±20	8.00	10.0	15.0	10.0	leadframe
7	SRPI 0503M-R68M	0.68	±20	10.0	12.0	14.0	8.50	leadframe
8	SRPI 0503M-1R0M	1.00	±20	13.0	14.0	11.0	7.00	leadframe
9	SRPI 0503M-1R2M	1.20	±20	14.0	16.0	11.0	6.50	leadframe
10	SRPI 0503M-1R5M	1.50	±20	16.0	25.0	10.0	6.00	leadframe
11	SRPI 0503M-2R2M	2.20	±20	25.0	35.0	9.00	5.50	leadframe
12	SRPI 0503M-3R3M	3.30	±20	32.0	38.0	8.00	5.00	leadframe
13	SRPI 0503M-4R7M	4.70	±20	50.0	53.0	6.00	4.60	leadframe
14	SRPI 0503M-5R6M	5.60	±20	55.0	63.0	4.50	4.25	leadframe
15	SRPI 0503M-6R8M	6.80	±20	68.0	76.2	4.30	4.00	leadframe
16	SRPI 0503M-100M	10.0	±20	110	128	3.50	2.75	leadframe
17	SRPI 0503M-150M	15.0	±20	165	190	2.60	2.10	leadframe
18	SRPI 0503M-180M	18.0	±20	195	230	2.30	2.00	leadframe
19	SRPI 0503M-220M	22.0	±20	220	250	1.70	1.90	leadframe
20	SRPI 0503M-330M	33.0	±20	380	440	1.60	1.60	leadframe

No.	Part No.	L	TOL.	RDC (mΩ)		I _{sat} (A)	I _{rms} (A)
		(μH)	(%)	Typ.	Max.	Typ.	Typ.
1	SRPI 0515M-R12N	0.12	±30	3.3	3.9	17.0	28.0
2	SRPI 0515M-R15N	0.15	±30	3.6	4.1	16.0	25.0
3	SRPI 0515M-R20N	0.20	±30	3.8	4.2	15.0	22.5
4	SRPI 0515M-R22N	0.22	±30	5.0	6.5	12.0	20.0
5	SRPI 0515M-R33M	0.33	±20	8.5	9.8	9.0	16.0
6	SRPI 0515M-R36M	0.36	±20	10.0	12.5	8.5	15.5
7	SRPI 0515M-R47M	0.47	±20	12.0	13.8	8.0	15.0
8	SRPI 0515M-R68M	0.68	±20	14.0	16.2	7.0	13.0
9	SRPI 0515M-1R0M	1.00	±20	22.0	25.3	6.0	9.0
10	SRPI 0515M-1R5M	1.50	±20	39.0	45.0	4.5	7.0
11	SRPI 0515M-2R2M	2.20	±20	45.0	52.0	4.0	6.0
12	SRPI 0515M-3R3M	3.30	±20	78.0	90.0	3.2	4.5
13	SRPI 0515M-4R7M	4.70	±20	103	118	2.7	4.0
14	SRPI 0515M-5R6M	5.60	±20	126	152	2.4	3.2
15	SRPI 0515M-6R8M	6.80	±20	142	171	2.3	3.0
16	SRPI 0515M-8R2M	8.20	±20	175	210	2.1	2.6
17	SRPI 0515M-100M	10.0	±20	210	235	2.0	2.3
18	SRPI 0515M-150M	15.0	±20	310	380	1.6	2.0
19	SRPI 0515M-220M	22.0	±20	405	466	1.2	1.7

1	SRPI 0518M-R20N	0.20	±30	3.6	4.1	25.0	14.0
2	SRPI 0518M-R22M	0.22	±20	4.2	5.0	22.0	13.0
3	SRPI 0518M-R33M	0.33	±20	7.5	8.6	15.0	11.0
4	SRPI 0518M-R47M	0.47	±20	9.8	11.3	14.0	10.0
5	SRPI 0518M-R56M	0.56	±20	11.0	13.0	13.5	9.5
6	SRPI 0518M-R68M	0.68	±20	12.4	14.3	13.0	9.0
7	SRPI 0518M-1R0M	1.00	±20	18.2	21	10.0	6.8
8	SRPI 0518M-1R5M	1.50	±20	26	30	9.0	6.0
9	SRPI 0518M-2R2M	2.20	±20	42	48	7.5	4.5
10	SRPI 0518M-3R3M	3.30	±20	60	69	5.0	3.5
11	SRPI 0518M-4R7M	4.70	±20	85	98	4.5	3.0
12	SRPI 0518M-5R6M	5.60	±20	110	127	4.0	2.5
13	SRPI 0518M-6R8M	6.80	±20	118	137	3.5	2.4
14	SRPI 0518M-8R2M	8.20	±20	143	165	3.0	2.3
15	SRPI 0518M-100M	10.0	±20	165	190	2.8	2.3
16	SRPI 0518M-150M	15.0	±20	275	318	2.3	1.7

Note:

1. Test Frequency: 100KHz /1V
2. All test data referenced to 25°C ambient
3. Saturation Current (Isat) will cause L0 to drop approximately 30%.
4. Heat Rated Current (I_{rms}) will cause the coil temperature rise approximately ΔT of 40°C
5. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions.

Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

6. Special inquiries besides the above common used types can be met on your requirement.

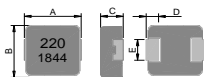


FEATURES

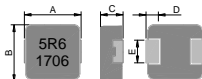
1. Magnetic metal powder inductor.
2. Compact design.
3. High current · low DCR · high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. Operating temperature -40~+125°C

DIMENSIONS (mm)

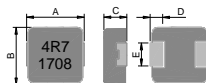
SRPI 0603M 0604M 0624M



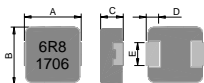
SRPI 0605M



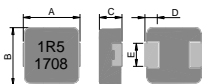
SRPI 0612M



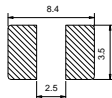
SRPI 0615M



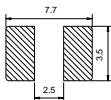
SRPI 0618M



SRPI 0603M 0604M 0605M



SRPI 0612M 0615M 0618M



Part No.	Size (mm)				
	A	B	C	D	E
SRPI 0603M	7.3 ± 0.3	6.6 ± 0.3	2.8 ± 0.2	1.8 ± 0.3	3.0 ± 0.3
SRPI 0604M	7.3 ± 0.3	6.6 ± 0.3	3.8 ± 0.2	1.8 ± 0.3	3.0 ± 0.3
SRPI 0605M	7.3 ± 0.3	6.6 ± 0.3	4.8 ± 0.2	1.8 ± 0.3	3.0 ± 0.3
SRPI 0612M	7.0 ± 0.3	6.6 ± 0.3	1.0 ± 0.2	1.8 ± 0.3	2.5 ± 0.3
SRPI 0615M	7.0 ± 0.3	6.6 ± 0.3	1.3 ± 0.2	1.8 ± 0.3	3.0 ± 0.3
SRPI 0618M	7.0 ± 0.3	6.6 ± 0.3	1.6 ± 0.2	1.8 ± 0.3	3.0 ± 0.3
SRPI 0624M	7.3 ± 0.3	6.6 ± 0.3	2.2 ± 0.2	1.8 ± 0.3	3.0 ± 0.3

SERIES LIST

No.	Part No.	L (μ H)	TOL (%)	RDC (m Ω)		I sat (A)	
				Typ.	Max.	Typ.	Typ.
1	SRPI 0603M-R10N	0.10	\pm 30	1.2	1.7	60.0	32.5
2	SRPI 0603M-R15N	0.15	\pm 30	1.5	1.9	45.0	27.0
3	SRPI 0603M-R16N	0.13	\pm 30	1.5	1.9	45.0	27.0
4	SRPI 0603M-R20N	0.20	\pm 30	1.8	2.5	41.0	24.0
5	SRPI 0603M-R22N	0.22	\pm 30	2.1	2.8	40.0	23.0
6	SRPI 0603M-R30M	0.30	\pm 20	3.2	3.8	35.0	21.0
7	SRPI 0603M-R33M	0.33	\pm 20	3.5	3.9	32.0	20.0
8	SRPI 0603M-R36M	0.36	\pm 20	3.6	4.2	32.0	19.0
9	SRPI 0603M-R47M	0.47	\pm 20	4.0	4.2	26.0	17.5
10	SRPI 0603M-R56M	0.56	\pm 20	4.7	5.0	25.5	16.5
11	SRPI 0603M-R60M	0.60	\pm 20	4.7	5.2	25.5	16.0
12	SRPI 0603M-R68M	0.68	\pm 20	4.8	5.5	25.0	15.5
13	SRPI 0603M-R75M	0.75	\pm 20	5.5	6.6	24.5	14.5
14	SRPI 0603M-R82M	0.82	\pm 20	6.7	8.0	24.0	13.0
15	SRPI 0603M-1R0M	1.00	\pm 20	8.3	10	22.0	11.0
16	SRPI 0603M-1R2M	1.20	\pm 20	10	12	20.0	10.0
17	SRPI 0603M-1R5M	1.50	\pm 20	13	15	18.0	9.0
18	SRPI 0603M-1R8M	1.80	\pm 20	14	17	16.0	8.5
19	SRPI 0603M-2R0M	2.00	\pm 20	16	19	15.0	8.2
20	SRPI 0603M-2R2M	2.20	\pm 20	18	20	14.0	8.0
21	SRPI 0603M-2R5M	2.50	\pm 20	20	22	13.0	7.0
22	SRPI 0603M-3R3M	3.30	\pm 20	28	30	13.5	6.0
23	SRPI 0603M-4R7M	4.70	\pm 20	37	40	10.0	5.5
24	SRPI 0603M-5R6M	5.60	\pm 20	43	48	9.0	5.0
25	SRPI 0603M-6R8M	6.80	\pm 20	54	60	8.0	4.5
26	SRPI 0603M-8R2M	8.20	\pm 20	64	68	7.5	4.0
27	SRPI 0603M-100M	10.0	\pm 20	75	85	6.0	3.5
28	SRPI 0603M-120M	12.0	\pm 20	81	93	5.5	3.3
29	SRPI 0603M-150M	15.0	\pm 20	107	123	4.0	3.0
30	SRPI 0603M-220M	22.0	\pm 20	165	190	3.5	2.0
31	SRPI 0603M-330M	33.0	\pm 20	200	240	2.5	2.0
32	SRPI 0603M-470M	47.0	\pm 20	302	363	2.0	1.75
1	SRPI 0604M-R12N	0.12	\pm 30	0.7	1.0	64.0	32.0
2	SRPI 0604M-R15N	0.15	\pm 30	0.9	1.2	55.0	30.0
3	SRPI 0604M-R22M	0.22	\pm 20	1.85	2.1	34.0	25.0
4	SRPI 0604M-R33M	0.33	\pm 20	2.0	2.6	34.0	25.0
5	SRPI 0604M-R36M	0.36	\pm 20	2.7	3.1	31.0	25.0
6	SRPI 0604M-R47M	0.47	\pm 20	3.0	3.4	28.0	23.0
7	SRPI 0604M-R56M	0.56	\pm 20	3.8	4.3	26.0	20.0
8	SRPI 0604M-R68M	0.68	\pm 20	4.1	4.5	24.0	16.0
9	SRPI 0604M-R82M	0.82	\pm 20	5.5	6.3	15.0	23.0
10	SRPI 0604M-1R0M	1.00	\pm 20	6.8	8.0	22.0	14.0
11	SRPI 0604M-1R5M	1.50	\pm 20	10	12	20.0	12.0
12	SRPI 0604M-2R2M	2.20	\pm 20	11.5	14	14.0	9.0
13	SRPI 0604M-3R3M	3.30	\pm 20	24	27	12.0	8.0
14	SRPI 0604M-4R7M	4.70	\pm 20	28	32.5	11.0	6.0
15	SRPI 0604M-5R6M	5.60	\pm 20	33	38	9.0	5.0
16	SRPI 0604M-6R8M	6.80	\pm 20	44	50	8.5	4.5
17	SRPI 0604M-8R2M	8.20	\pm 20	55	64	8.0	4.5
18	SRPI 0604M-100M	10.0	\pm 20	64	72	7.0	4.0
19	SRPI 0604M-150M	15.0	\pm 20	80	90	3.5	3.0
20	SRPI 0604M-220M	22.0	\pm 20	120	145	3.5	2.5
21	SRPI 0604M-330M	33.0	\pm 20	180	210	3.2	1.8
22	SRPI 0604M-470M	47.0	\pm 20	295	350	2.5	1.8
1	SRPI 0605M-R10N	0.10	\pm 30	0.65	0.78	65.0	32.0
2	SRPI 0605M-R11N	0.11	\pm 30	0.65	0.78	65.0	32.0
3	SRPI 0605M-R15N	0.15	\pm 30	1.3	1.7	50.0	30.0
4	SRPI 0605M-R22M	0.22	\pm 20	1.6	1.9	35.0	25.0
5	SRPI 0605M-R33M	0.33	\pm 20	2.5	3.0	32.0	25.0
6	SRPI 0605M-R40M	0.40	\pm 20	3.1	3.7	31.0	23.0

7	SRPI 0605M-R47M	0.47	±20	3.5	3.9	30.0	22.0
8	SRPI 0605M-R56M	0.56	±20	3.6	4.2	27.0	20.0
9	SRPI 0605M-R60M	0.60	±20	3.8	4.3	25.0	19.0
10	SRPI 0605M-R68M	0.68	±20	4.0	4.5	24.0	18.0
11	SRPI 0605M-R82M	0.82	±20	4.6	4.9	22.0	16.5
12	SRPI 0605M-1R0M	1.00	±20	6.1	6.5	20.0	15.0
13	SRPI 0605M-1R2M	1.20	±20	6.7	7.5	18.0	14.0
14	SRPI 0605M-1R5M	1.50	±20	8.6	9.0	16.5	12.0
15	SRPI 0605M-1R8M	1.80	±20	9.5	11.0	15.0	12.0
16	SRPI 0605M-2R2M	2.20	±20	11.2	12.0	14.0	10.0
17	SRPI 0605M-3R3M	3.30	±20	19	20.9	12.0	8.0
18	SRPI 0605M-4R7M	4.70	±20	28	30.8	10.0	6.5
19	SRPI 0605M-4R9M	4.90	±20	32	38	9.5	6.3
20	SRPI 0605M-5R6M	5.60	±20	43.5	49	9.0	6.0
21	SRPI 0605M-6R8M	6.80	±20	46	51.5	8.5	5.5
22	SRPI 0605M-8R2M	8.20	±20	56	63	8.0	5.0
23	SRPI 0605M-100M	10.0	±20	60	69	7.5	4.0
24	SRPI 0605M-120M	12.0	±20	68	80	6.7	3.8
25	SRPI 0605M-150M	15.0	±20	81	92	6.0	3.5
26	SRPI 0605M-220M	22.0	±20	140	170	5.5	2.5
27	SRPI 0605M-330M	33.0	±20	173	200	3.5	2.0
28	SRPI 0605M-420M	42.0	±20	212	245	2.8	2.0
29	SRPI 0605M-470M	47.0	±20	290	330	2.7	1.9
30	SRPI 0605M-560M	56.0	±20	342	396	2.1	1.6
31	SRPI 0605M-680M	68.0	±20	386	445	2.0	1.2
1	SRPI 0612M-R10N	0.10	±30	3.3	4.0	30	16
2	SRPI 0612M-R15N	0.15	±30	4.9	5.7	24	14
3	SRPI 0612M-R22N	0.22	±30	6.5	7.5	19	11
4	SRPI 0612M-R33M	0.33	±20	9.0	10	16	9.5
5	SRPI 0612M-R47M	0.47	±20	13	17	12	8.5
6	SRPI 0612M-R68M	0.68	±20	17	19	9.0	7.0
7	SRPI 0612M-1R0M	1.00	±20	27	30	7.0	6.0
8	SRPI 0612M-1R2M	1.20	±20	31	36	6.8	5.0
9	SRPI 0612M-1R5M	1.50	±20	35	40	6.5	4.5
10	SRPI 0612M-2R2M	2.20	±20	53	61	5.0	4.0
11	SRPI 0612M-3R3M	3.30	±20	90	103	4.0	3.2
12	SRPI 0612M-4R7M	4.70	±20	130	150	3.8	2.5
13	SRPI 0612M-6R8M	6.80	±20	172	198	3.0	2.1
14	SRPI 0612M-100M	10.0	±20	280	290	2.5	1.8
15	SRPI 0612M-180M	18.0	±20	490	540	2.0	1.35
16	SRPI 0612M-220M	22.0	±20	540	600	1.7	1.2
1	SRPI 0615M-R10N	0.10	±30	2.5	3.1	35.0	17.5
2	SRPI 0615M-R12N	0.12	±30	3.0	3.6	30.0	17.0
3	SRPI 0615M-R15N	0.15	±30	3.7	4.5	25.0	16.0
4	SRPI 0615M-R20N	0.20	±30	3.9	4.6	24.0	14.5
5	SRPI 0615M-R22N	0.22	±30	4.3	5.2	22.0	14.0
6	SRPI 0615M-R33M	0.33	±20	6.6	7.6	18.0	11.0
7	SRPI 0615M-R47M	0.47	±20	9.0	10.3	16.0	9.5
8	SRPI 0615M-R56M	0.56	±20	12.5	14.0	15.5	9.0
9	SRPI 0615M-R68M	0.68	±20	13.8	15.2	15.0	7.5
10	SRPI 0615M-R82M	0.82	±20	20.0	24.0	14.0	7.0
11	SRPI 0615M-1R0M	1.00	±20	23.0	25.8	12.0	6.5
12	SRPI 0615M-1R2M	1.20	±20	29.0	34.0	10.5	5.6
13	SRPI 0615M-1R5M	1.50	±20	37.0	42.5	9.5	5.0
14	SRPI 0615M-2R2M	2.20	±20	48.0	55.0	6.5	4.5
15	SRPI 0615M-3R3M	3.30	±20	62.0	74.0	6.0	4.2
16	SRPI 0615M-4R7M	4.70	±20	96.0	111	5.0	3.8
17	SRPI 0615M-5R6M	5.60	±20	115	138	4.5	3.0
18	SRPI 0615M-6R8M	6.80	±20	128	148	3.5	2.6
19	SRPI 0615M-8R2M	8.20	±20	153	184	3.2	2.4

20	SRPI 0615M-100M	10.0	±20	180	216	2.8	2.3
21	SRPI 0615M-220M	22.0	±20	420	504	2.5	1.5
22	SRPI 0615M-330M	33.0	±20	640	750	2.0	1.2
1	SRPI 0618M-R10N	0.10	±30	2.1	2.5	45.0	18.0
2	SRPI 0618M-R15N	0.15	±30	2.2	2.6	34.0	18.0
3	SRPI 0618M-R18N	0.18	±30	2.5	3.0	32.0	17.0
4	SRPI 0618M-R22M	0.22	±20	2.5	3.0	26.0	16.0
5	SRPI 0618M-R33M	0.33	±20	4.8	5.8	22.0	14.0
6	SRPI 0618M-R47M	0.47	±20	6.4	7.4	18.0	12.0
7	SRPI 0618M-R56M	0.56	±20	8.5	10	17.5	11.0
8	SRPI 0618M-R68M	0.68	±20	9.5	11	17.0	10.0
9	SRPI 0618M-R82M	0.82	±20	11.5	14	15.5	8.5
10	SRPI 0618M-1R0M	1.00	±20	14.5	17	14.0	7.0
11	SRPI 0618M-1R2M	1.20	±20	20	24	13.5	6.5
12	SRPI 0618M-1R5M	1.50	±20	21	25.2	13.0	6.0
13	SRPI 0618M-2R2M	2.20	±20	31	35	11.0	6.0
14	SRPI 0618M-3R3M	3.30	±20	40	46	9.0	5.0
15	SRPI 0618M-4R7M	4.70	±20	68	76	7.0	4.0
16	SRPI 0618M-5R6M	5.60	±20	78	86	6.0	3.5
17	SRPI 0618M-6R8M	6.80	±20	93	104	5.5	3.0
18	SRPI 0618M-8R2M	8.20	±20	123	140	4.5	2.6
19	SRPI 0618M-100M	10.0	±20	143	160	3.5	2.3
20	SRPI 0618M-150M	15.0	±20	240	280	3.0	2.0
21	SRPI 0618M-220M	22.0	±20	300	360	2.5	1.8
22	SRPI 0618M-330M	33.0	±20	550	650	2.1	1.3
1	SRPI 0624M-R10N	0.10	±30	1.4	1.7	70.0	30.0
2	SRPI 0624M-R15N	0.15	±30	1.8	2.3	45.0	30.0
3	SRPI 0624M-R20M	0.20	±20	1.9	2.8	40.0	23.0
4	SRPI 0624M-R22M	0.22	±20	2.0	3.2	34.0	21.0
5	SRPI 0624M-R33M	0.33	±20	3.6	4.4	30.0	18.0
6	SRPI 0624M-R36M	0.36	±20	3.8	4.6	29.0	17.0
7	SRPI 0624M-R47M	0.47	±20	4.8	5.1	26.0	15.0
8	SRPI 0624M-R56M	0.56	±20	5.5	6.5	24.0	13.0
9	SRPI 0624M-R60M	0.60	±20	5.7	6.9	22.0	13.0
10	SRPI 0624M-R68M	0.68	±20	6.4	7.2	21.0	13.0
11	SRPI 0624M-R82M	0.82	±20	8.0	9.5	17.0	11.0
12	SRPI 0624M-1R0M	1.00	±20	10.5	13.5	16.0	11.0
13	SRPI 0624M-1R5M	1.50	±20	17.0	20.0	15.0	9.0
14	SRPI 0624M-2R2M	2.20	±20	23.0	28.0	14.0	7.0
15	SRPI 0624M-3R3M	3.30	±20	34.0	39.0	10.0	6.0
16	SRPI 0624M-4R7M	4.70	±20	41.0	50.0	9.0	5.5
17	SRPI 0624M-5R6M	5.60	±20	56.0	62.0	8.0	5.0
18	SRPI 0624M-6R8M	6.80	±20	65.0	72.0	7.0	4.0
19	SRPI 0624M-8R2M	8.20	±20	81.0	95.0	6.0	3.6
20	SRPI 0624M-100M	10.0	±20	92.0	101.0	5.0	3.2
21	SRPI 0624M-150M	15.0	±20	150.0	180.0	3.5	2.5
22	SRPI 0624M-220M	22.0	±20	185.0	215.0	3.0	1.8

Note:

1. Test Frequency: 100KHz /1V
2. All test data referenced to 25°C ambient
3. Saturation Current (Isat) will cause L0 to drop approximately 30%.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40°C
5. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions.
Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
6. Special inquiries besides the above common used types can be met on your requirement.

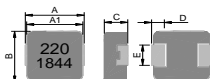


FEATURES

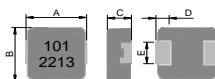
1. Carbonyl Powder.
2. Compact design.
3. High current · low DCR · high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. Operating temperature -40~+125°C

DIMENSIONS (mm)

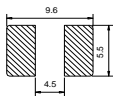
SRPI 0804M



SRPI 0805M



Recommend PC Board Pattern



Note:

1. PCB layout is referred to standard IPC-7351B
2. The above PCB layout reference only.
3. Recommend solder paste thickness at 0.15mm and above.

Part No.	Size (mm)					
	A	A1	B	C	D	E
SRPI 0804M	8.8 ± 0.4	8.1 ± 0.2	8.4 ± 0.3	3.8 ± 0.2	1.3 ± 0.3	5.0 ± 0.3
Part No.	Size (mm)					
	A	B	C	D	E	
SRPI 0805M	8.8 ± 0.4	8.4 ± 0.3	4.8 ± 0.2	1.6 ± 0.3	5.0 ± 0.3	

SERIES LIST

No.	Part No.	L (μ H)	TOL (%)	RDC (m Ω)		I sat (A)		I rms (A)	
				Typ.	Max.	Typ.	Typ.	Typ.	Typ.
1	SRPI 0804M-R22M	0.22	\pm 20	1.6	1.76	60		31	
2	SRPI 0804M-R33M	0.33	\pm 20	2.0	2.20	55		30	
3	SRPI 0804M-R47M	0.47	\pm 20	2.6	2.86	40		28	
4	SRPI 0804M-R56M	0.56	\pm 20	2.7	2.97	38		25	
5	SRPI 0804M-R68M	0.68	\pm 20	3.1	3.41	36		23	
6	SRPI 0804M-R82M	0.82	\pm 20	3.7	4.10	32		21	
7	SRPI 0804M-1R0M	1.00	\pm 20	4.5	4.95	29		18	
8	SRPI 0804M-1R5M	1.50	\pm 20	6.6	7.30	27		17	
9	SRPI 0804M-2R2M	2.20	\pm 20	10.8	11.9	25		16	
10	SRPI 0804M-3R3M	3.30	\pm 20	15.0	16.5	22		14	
11	SRPI 0804M-4R7M	4.70	\pm 20	26.8	29.5	19		8.5	
12	SRPI 0804M-5R6M	5.60	\pm 20	30	35	17		7.5	
13	SRPI 0804M-6R8M	3.80	\pm 20	40	46	16.5		6.5	
14	SRPI 0804M-8R2M	8.20	\pm 20	44	51	16		6.0	
15	SRPI 0804M-100M	10.0	\pm 20	53	61	10		5.6	
16	SRPI 0804M-220M	22.0	\pm 20	100	120	8		3.9	
1	SRPI 0805M-2R5M	2.50	\pm 20	8	8	20.1		17.5	
2	SRPI 0805M-100M	10.0	\pm 20	33	37	12.0		6.7	
3	SRPI 0805M-220M	22.0	\pm 20	82	90	6.6		5.0	
4	SRPI 0805M-330M	33.0	\pm 20	115	138	6.0		3.5	
5	SRPI 0805M-101M	100.0	\pm 20	271	326	4.0		2.0	

Note:

1. Test Frequency: 100KHz /1V
2. All test data referenced to 25 $^{\circ}$ C ambient
3. Saturation Current (Isat) will cause L0 to drop approximately 30%
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately Δ T of 40 $^{\circ}$ C
5. The part temperature (ambient + temp rise) should not exceed 125 $^{\circ}$ C under worst case operating conditions.
Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions
all affect the part temperature. Part temperature should be verified in the end application.
6. I rms Testing : Temperature rise is highly dependent on many factors including pcb land pattern, trace size,
and proximity to other components. Therefore temperature rise should be verified in application conditions.
7. Rated DC current: The lower value of I rms and Isat.

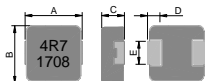


FEATURES

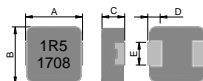
1. Magnetic metal powder inductor.
2. Compact design.
3. High current · low DCR · high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. Operating temperature -40~+125°C
(Including self - temperature rise)

DIMENSIONS (mm)

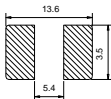
SRPI 1004M



SRPI 1005M



Recommend PC Board Pattern



Note:

1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.15mm and above.

Part No.	Size (mm)				
	A	B	C	D	E
SRPI 1004M	11.0 ± 0.5	10.0 ± 0.3	3.8 ± 0.2	2.3 ± 0.3	3.0 ± 0.3
SRPI 1005M	11.0 ± 0.5	10.0 ± 0.3	4.8 ± 0.2	2.3 ± 0.3	3.0 ± 0.3

No.	Part No.	L	TOL.	RDC		Isat	Irms	Type
		(μ H)	(%)	Typ.	Max.	(A) Typ.	(A) Typ.	
1	SRPI 1004M-R15N	0.15	± 30	0.50	0.60	75.0	43.0	non-leadframe
2	SRPI 1004M-R18N	0.18	± 30	0.54	0.80	72.0	38.0	non-leadframe
3	SRPI 1004M-R20N	0.20	± 30	0.66	0.95	70.0	35.0	non-leadframe
4	SRPI 1004M-R22M	0.22	± 20	0.80	1.00	60.0	35.0	non-leadframe
5	SRPI 1004M-R27M	0.27	± 20	0.82	1.00	60.0	33.0	non-leadframe
6	SRPI 1004M-R30M	0.30	± 20	0.94	1.10	60.0	32.0	non-leadframe
7	SRPI 1004M-R33M	0.33	± 20	1.00	1.20	60.0	31.0	non-leadframe
8	SRPI 1004M-R36M	0.36	± 20	1.05	1.20	60.0	31.0	non-leadframe
9	SRPI 1004M-R39M	0.39	± 20	1.10	1.30	60.0	30.0	non-leadframe
10	SRPI 1004M-R45M	0.45	± 20	1.30	1.50	45.0	29.0	non-leadframe
11	SRPI 1004M-R47M	0.47	± 20	1.30	1.50	43.0	28.0	non-leadframe
12	SRPI 1004M-R56M	0.56	± 20	1.60	1.80	40.0	25.0	non-leadframe
13	SRPI 1004M-R68M	0.68	± 20	2.40	2.70	39.0	22.0	non-leadframe
14	SRPI 1004M-R75M	0.75	± 20	2.40	2.70	39.0	22.0	non-leadframe
15	SRPI 1004M-1R0M	1.00	± 20	3.00	3.30	36.0	18.0	non-leadframe
16	SRPI 1004M-1R2M	1.20	± 20	3.30	3.80	33.0	17.0	non-leadframe
17	SRPI 1004M-1R5M	1.50	± 20	4.00	4.60	33.0	16.0	non-leadframe
18	SRPI 1004M-2R2M	2.20	± 20	6.50	7.00	27.0	12.0	leadframe
19	SRPI 1004M-2R5M	2.50	± 20	7.90	8.70	23.0	11.5	leadframe
20	SRPI 1004M-3R3M	3.30	± 20	10.8	11.8	20.0	11.0	leadframe
21	SRPI 1004M-4R0M	4.00	± 20	13.0	15.0	18.0	10.2	leadframe
22	SRPI 1004M-4R7M	4.70	± 20	15.0	15.5	17.0	10.0	leadframe
23	SRPI 1004M-5R6M	5.60	± 20	17.0	19.3	14.0	9.0	leadframe
24	SRPI 1004M-6R8M	6.80	± 20	17.5	23.3	13.5	8.5	leadframe
25	SRPI 1004M-8R2M	8.20	± 20	20.0	22.5	12.5	8.0	leadframe
26	SRPI 1004M-100M	10.0	± 20	27.0	30.0	12.0	7.5	leadframe
27	SRPI 1004M-150M	15.0	± 20	40.0	45.0	10.0	6.25	leadframe
28	SRPI 1004M-220M	22.0	± 20	64.0	74.0	7.0	5.0	leadframe
29	SRPI 1004M-270M	27.0	± 20	86.0	100	6.0	4.0	leadframe
30	SRPI 1004M-330M	33.0	± 20	92.0	112	5.0	3.5	leadframe
31	SRPI 1004M-470M	47.0	± 20	145	167	4.5	3.0	leadframe
32	SRPI 1004M-680M	68.0	± 20	205	240	3.0	2.0	leadframe
33	SRPI 1004M-820M	82.0	± 20	265	320	2.5	1.5	leadframe
1	SRPI 1005M-R22M	0.22	± 20	0.45	0.50	70	45	non-leadframe
2	SRPI 1005M-R30M	0.30	± 20	0.57	0.61	65	38	non-leadframe
3	SRPI 1005M-1R0M	1.00	± 20	2.8	3.5	30	22	non-leadframe
4	SRPI 1005M-1R2M	1.20	± 20	2.9	3.5	28	20	non-leadframe
5	SRPI 1005M-1R3M	1.30	± 20	3.2	3.7	28	20	non-leadframe
6	SRPI 1005M-1R5M	1.50	± 20	3.5	4.1	27	19	non-leadframe
7	SRPI 1005M-2R2M	2.20	± 20	5.4	6.0	24	16	leadframe
8	SRPI 1005M-3R3M	3.30	± 20	9.0	10.4	22	14	leadframe
9	SRPI 1005M-8R2M	8.20	± 20	18.5	24	14.5	9.0	leadframe
10	SRPI 1005M-100M	10.0	± 20	25	29	13.5	8.0	leadframe
11	SRPI 1005M-150M	15.0	± 20	37	45	9.5	5.5	leadframe
12	SRPI 1005M-220M	22.0	± 20	50	60	9.0	5.0	leadframe
13	SRPI 1005M-240M	24.0	± 20	59	70.8	7.7	4.6	leadframe
14	SRPI 1005M-330M	33.0	± 20	80	92	7.5	4.3	leadframe
15	SRPI 1005M-470M	47.0	± 20	125	145	6.5	3.8	leadframe
16	SRPI 1005M-680M	68.0	± 20	176	205	4.0	2.5	leadframe
17	SRPI 1005M-101M	100	± 20	315	380	3.0	2.0	leadframe

Note:

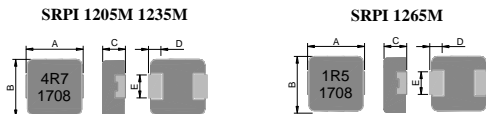
1. Test Frequency: 100KHz /1V
2. All test data referenced to 25°C ambient
3. Saturation Current (Isat) will cause L0 to drop approximately 30%
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40°C
5. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions.
Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
6. Special inquiries besides the above common used types can be met on your requirement.



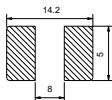
FEATURES

1. Magnetic metal powder inductor.
2. Compact design.
3. High current + low DCR + high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. Operating temperature -40~+125°C

DIMENSIONS (mm)



Recommend PC Board Pattern



Note:

1. PCB layout is referred to standard IPC-7351B
2. The above PCB layout reference only.
3. Recommend solder paste thickness at 0.15mm and above

Part No.	Size (mm)				
	A	B	C	D	E
SRPI 1205M	13.5 ± 0.5	12.5 ± 0.3	4.8 ± 0.2	2.3 ± 0.3	4.7 ± 0.3
SRPI 1235M	13.5 ± 0.5	12.5 ± 0.3	3.3 ± 0.2	2.3 ± 0.3	4.7 ± 0.3
SRPI 1265M	13.5 ± 0.5	12.5 ± 0.3	6.2 ± 0.3	2.3 ± 0.3	4.7 ± 0.3

SERIES LIST

No.	Part No.	L	TOL.	RDC		I _{sat}	I _{rms}	Type
		(μ H)	(%)	Typ.	Max.	(A) Typ.	(A) Typ.	
1	SRPI 1205M-R20M	0.20	± 20	0.45	0.55	110.0	52.0	non-leadframe
2	SRPI 1205M-R22M	0.22	± 20	0.50	0.70	110.0	52.0	non-leadframe
3	SRPI 1205M-R33M	0.33	± 20	0.70	0.90	80.0	42.0	non-leadframe
4	SRPI 1205M-R36M	0.36	± 20	0.75	0.95	75.0	42.0	non-leadframe
5	SRPI 1205M-R39M	0.39	± 20	0.78	0.95	70.0	42.0	non-leadframe
6	SRPI 1205M-R47M	0.47	± 20	0.86	1.10	65.0	38.0	non-leadframe
7	SRPI 1205M-R50M	0.50	± 20	0.90	1.30	60.0	37.0	non-leadframe
8	SRPI 1205M-R56M	0.56	± 20	1.00	1.50	55.0	36.0	non-leadframe
9	SRPI 1205M-R68M	0.68	± 20	1.40	1.70	54.0	34.0	non-leadframe
10	SRPI 1205M-R82M	0.82	± 20	1.70	2.10	52.0	31.0	non-leadframe
11	SRPI 1205M-1R0M	1.00	± 20	1.85	2.50	50.0	29.0	non-leadframe
12	SRPI 1205M-1R2M	1.20	± 20	2.50	3.00	49.0	28.0	non-leadframe
13	SRPI 1205M-1R5M	1.50	± 20	2.80	3.30	48.0	27.0	non-leadframe
14	SRPI 1205M-1R8M	1.80	± 20	4.00	4.90	40.0	21.0	leadframe
15	SRPI 1205M-2R2M	2.20	± 20	4.20	5.50	32.0	20.0	leadframe
16	SRPI 1205M-2R7M	2.70	± 20	4.70	6.70	32.0	17.0	leadframe
17	SRPI 1205M-3R3M	3.30	± 20	6.80	9.20	32.0	15.0	leadframe
18	SRPI 1205M-4R7M	4.70	± 20	11.4	15.0	27.0	12.0	leadframe
19	SRPI 1205M-5R6M	5.60	± 20	12.3	16.5	22.0	11.5	leadframe
20	SRPI 1205M-6R0M	6.00	± 20	13.0	16.5	21.5	11.5	leadframe
21	SRPI 1205M-6R8M	6.80	± 20	14.5	18.5	21.0	11.0	leadframe
22	SRPI 1205M-8R2M	8.20	± 20	16.8	22.5	18.0	9.5	leadframe
23	SRPI 1205M-100M	10.0	± 20	21.4	25.5	16.0	9.0	leadframe
24	SRPI 1205M-150M	15.0	± 20	32.0	38.0	13.0	8.2	leadframe
25	SRPI 1205M-180M	18.0	± 20	40.0	45.0	11.0	7.5	leadframe
26	SRPI 1205M-220M	22.0	± 20	50.0	58.0	10.0	6.5	leadframe
27	SRPI 1205M-330M	33.0	± 20	73.0	88.0	8.0	5.0	leadframe
28	SRPI 1205M-470M	47.0	± 20	100.0	120.0	6.5	4.0	leadframe
29	SRPI 1205M-680M	68.0	± 20	135.0	162.0	5.5	3.5	leadframe
30	SRPI 1205M-820M	82.0	± 20	198.0	238.0	4.8	3.0	leadframe
1	SRPI 1235M-R33M	0.33	± 20	0.85	1.00	62.0	36.5	non-leadframe
2	SRPI 1235M-R36M	0.36	± 20	0.87	1.10	60.0	36.0	non-leadframe
3	SRPI 1235M-R45M	0.45	± 20	1.05	1.50	58.0	33.0	non-leadframe
4	SRPI 1235M-R47M	0.47	± 20	1.20	1.80	55.0	32.0	non-leadframe
5	SRPI 1235M-R56M	0.56	± 20	1.30	1.90	53.0	30.0	non-leadframe
6	SRPI 1235M-R60M	0.60	± 20	1.50	2.20	51.0	29.0	non-leadframe
7	SRPI 1235M-R67M	0.67	± 20	1.90	2.50	49.0	28.0	non-leadframe
8	SRPI 1235M-R68M	0.68	± 20	1.90	2.50	49.0	28.0	non-leadframe
9	SRPI 1235M-R82M	0.82	± 20	2.20	3.00	44.0	25.0	leadframe
10	SRPI 1235M-1R0M	1.00	± 20	2.70	3.50	40.0	24.0	leadframe
11	SRPI 1235M-1R2M	1.20	± 20	4.00	5.00	37.0	21.0	leadframe
12	SRPI 1235M-1R5M	1.50	± 20	4.80	5.50	35.0	19.0	leadframe
13	SRPI 1235M-1R8M	1.80	± 20	5.20	7.00	30.0	17.0	leadframe
14	SRPI 1235M-2R2M	2.20	± 20	6.30	8.00	29.0	16.0	leadframe
15	SRPI 1235M-3R3M	3.30	± 20	11.00	13.50	27.0	12.0	leadframe
16	SRPI 1235M-4R7M	4.70	± 20	15.30	18.20	24.0	10.0	leadframe
17	SRPI 1235M-5R6M	5.60	± 20	18.0	22.0	19.0	9.5	leadframe
18	SRPI 1235M-6R8M	6.80	± 20	20.0	24.0	18.0	9.0	leadframe
19	SRPI 1235M-8R2M	8.20	± 20	23.0	28.0	16.0	8.5	leadframe
20	SRPI 1235M-100M	10.0	± 20	29.0	34.0	14.0	7.0	leadframe
21	SRPI 1235M-330M	33.0	± 20	132.0	160.0	6.0	3.5	leadframe
1	SRPI 1265M-R15M	0.15	± 20	0.49	0.60	118.0	55.0	non-leadframe
2	SRPI 1265M-R22M	0.22	± 20	0.47	0.60	112.0	53.0	non-leadframe
3	SRPI 1265M-R30M	0.30	± 20	0.60	0.72	72.0	48.0	non-leadframe
4	SRPI 1265M-R33M	0.33	± 20	0.65	0.80	68.0	46.0	non-leadframe
5	SRPI 1265M-R36M	0.36	± 20	0.70	0.90	66.0	45.0	non-leadframe
6	SRPI 1265M-R40M	0.40	± 20	0.70	1.00	64.0	44.0	non-leadframe
7	SRPI 1265M-R45M	0.45	± 20	0.90	1.20	63.0	42.0	non-leadframe
8	SRPI 1265M-R47M	0.47	± 20	0.90	1.20	63.0	41.0	non-leadframe

9	SRPI 1265M-R50M	0.50	±20	0.92	1.25	60.0	40.0	non-leadframe
10	SRPI 1265M-R56M	0.56	±20	1.05	1.30	58.0	37.0	non-leadframe
11	SRPI 1265M-R68M	0.68	±20	1.25	1.50	55.0	35.0	non-leadframe
12	SRPI 1265M-R82M	0.82	±20	1.50	1.90	50.0	33.0	non-leadframe
13	SRPI 1265M-1R0M	1.00	±20	1.70	2.30	48.0	30.0	non-leadframe
14	SRPI 1265M-1R2M	1.20	±20	1.90	2.40	47.0	28.0	non-leadframe
15	SRPI 1265M-1R4M	1.40	±20	2.10	2.60	46.0	27.0	non-leadframe
16	SRPI 1265M-1R5M	1.50	±20	2.50	3.00	45.0	27.0	non-leadframe
17	SRPI 1265M-1R8M	1.80	±20	3.60	4.00	40.0	24.0	leadframe
18	SRPI 1265M-2R2M	2.20	±20	3.80	4.20	37.0	22.0	leadframe
19	SRPI 1265M-2R7M	2.70	±20	4.30	5.50	32.0	20.0	leadframe
20	SRPI 1265M-3R3M	3.30	±20	5.70	6.80	30.0	18.0	leadframe
21	SRPI 1265M-4R7M	4.70	±20	7.00	8.40	28.0	13.5	leadframe
22	SRPI 1265M-5R6M	5.60	±20	8.50	10.0	23.0	12.5	leadframe
23	SRPI 1265M-6R8M	6.80	±20	9.50	11.5	18.0	11.5	leadframe
24	SRPI 1265M-7R0M	7.00	±20	10.0	12.3	17.7	11.2	leadframe
25	SRPI 1265M-8R2M	8.20	±20	12.0	15.5	16.0	10.5	leadframe
26	SRPI 1265M-100M	10.0	±20	13.2	16.5	15.5	10.0	leadframe
27	SRPI 1265M-120M	12.0	±20	16.0	20.0	14.0	9.5	leadframe
28	SRPI 1265M-130M	13.0	±20	21.0	24.0	13.0	9.0	leadframe
29	SRPI 1265M-150M	15.0	±20	23.2	28.0	12.5	9.0	leadframe
30	SRPI 1265M-220M	22.0	±20	32.5	37.0	12.0	9.0	leadframe
31	SRPI 1265M-250M	25.0	±20	40.0	47.0	11.5	8.5	leadframe
32	SRPI 1265M-330M	33.0	±20	48.0	58.0	11.0	8.0	leadframe
33	SRPI 1265M-470M	47.0	±20	76.0	90.0	9.5	6.5	leadframe
34	SRPI 1265M-101M	100	±20	145.0	165.0	5.5	4.2	leadframe

Note:

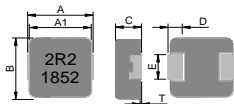
1. Test Frequency: 100KHz /1V
2. All test data referenced to 25°C ambient
3. Saturation Current (Isat) will cause L0 to drop approximately 30%.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40°C .
5. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions.
Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
6. Special inquiries besides the above common used types can be met on your requirement.



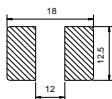
FEATURES

1. Magnetic metal powder inductor.
2. Compact design.
3. High current · low DCR · high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.
7. Operating temperature -40~+125°C

DIMENSIONS (mm)



Recommend PC Board Pattern



Note:

1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.17mm and above.

Part No.	Size (mm)						
	A	A1	B	C	D	E	T
SRPI 1707M	17.6 ± 0.4	16.9 ± 0.3	16.9 ± 0.3	6.7 ± 0.3	2.1 ± 0.3	11.9 ± 0.3	0~+0.25

SERIES LIST

No.	Part No.	L (μ H)	TOL (%)	RDC (m Ω) Typ.	RDC (m Ω) Max.	I sat 1 (A) Typ.	I sat 2 (A) Typ.	I rms (A) Typ.
1	SRPI 1707M-R45M	0.45	± 20	0.8	0.96	85.0	125.0	62.0
2	SRPI 1707M-R47M	0.47	± 20	0.95	1.03	80.0	123.0	62.0
3	SRPI 1707M-1R0M	1.00	± 20	1.6	2.0	60.0	70.0	52.0
4	SRPI 1707M-1R3M	1.30	± 20	1.7	2.3	54.0	67.0	49.0
5	SRPI 1707M-1R5M	1.50	± 20	2.0	2.5	52.0	65.0	47.0
6	SRPI 1707M-1R8M	1.80	± 20	2.1	2.5	49.0	63.0	45.0
7	SRPI 1707M-2R2M	2.20	± 20	2.4	2.7	47.0	62.0	43.5
8	SRPI 1707M-3R3M	3.30	± 20	3.5	3.9	45.0	54.0	28.0
9	SRPI 1707M-4R7M	4.70	± 20	4.8	5.5	41.0	50.0	25.0
10	SRPI 1707M-5R6M	5.60	± 20	5.8	7.05	40.0	45.0	21.0
11	SRPI 1707M-6R8M	6.80	± 20	8.4	9.2	32.0	39.0	19.0
12	SRPI 1707M-7R4M	7.40	± 20	8.8	9.7	27.0	34.0	18.5
13	SRPI 1707M-8R2M	8.20	± 20	9.6	10.8	25.0	31.0	18.0
14	SRPI 1707M-100M	10.0	± 20	11.8	13.0	24.0	29.0	16.5
15	SRPI 1707M-150M	15.0	± 20	17.8	20.5	23.0	27.0	12.5
16	SRPI 1707M-220M	22.0	± 20	25.1	26.5	18.0	23.0	12.0
17	SRPI 1707M-330M	33.0	± 20	38.0	44.0	15.0	20.0	10.7
18	SRPI 1707M-390M	39.0	± 20	40.0	48.0	11.0	18.0	9.2
19	SRPI 1707M-470M	47.0	± 20	48.0	55.0	9.5	16.0	8.7
20	SRPI 1707M-560M	56.0	± 20	54.0	62.0	9.0	15.0	7.8
21	SRPI 1707M-680M	68.0	± 20	68.0	80.0	8.0	13.0	7.0
22	SRPI 1707M-820M	82.0	± 20	87.0	100.0	7.0	12.0	5.7
23	SRPI 1707M-101M	100	± 20	102.0	118.0	6.5	12.0	5.3

Note:

1. Test Frequency: 100KHz /1V
2. All test data referenced to 25 $^{\circ}$ C ambient
3. Saturation Current (Isat1) will cause L0 to drop approximately 20%
Saturation Current (Isat2) will cause L0 to drop approximately 30%
4. Heat Rated Current (I rms) will cause the coil temperature rise approximately ΔT of 40 $^{\circ}$ C
5. The part temperature (ambient + temp rise) should not exceed 125 $^{\circ}$ C under worst case operating conditions.
Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
6. Special inquiries besides the above common used types can be met on your requirement.