

FEATURES

- Magnetic shielding structure, Excellent resistance to electromagnetic interference.
- Low loss, high efficiency, wide application frequency.
- Low impedance Parasitic capacitance is small.



APPLICATIONS

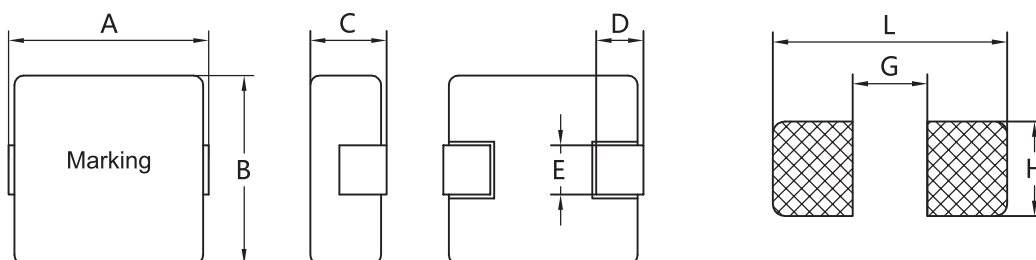
- PDA, notebook, desktop, and server applications
- Battery powered devices and DC/DC converters.

PRODUCT IDENTIFICATION

SMPC 0402 – 4R7 M – T
a b c d e

- a : Series name
b : Product dimensions
c : Inductance Value (1R0:1.0uH; 100: 10uH; 101:100uH)
d : Inductance Tolerance (K:10% ; M:20% ; N:30%)
e : Packaging style (T: Taping; B: bulk)

SHAPES AND DIMENSIONS Unit: mm



Series	Dimensions(mm)							
	A	B	C	D	E	L	G	H
SMPC0312	3.5±0.2	3.2±0.2	1.0±0.2	0.7±0.2	1.2±0.2	3.7	2.0	1.5
SMPC0302	3.5±0.2	3.2±0.2	1.8±0.2	0.7±0.2	1.2±0.2	3.7	2.0	1.5
SMPC0412	4.45±0.25	4.06±0.25	1.0±0.2	0.76±0.3	2.0±0.2	4.6	2.5	2.4
SMPC0402	4.45±0.25	4.06±0.25	1.8±0.2	0.76±0.3	2.0±0.2	4.6	2.5	2.4
SMPC0512	5.7±0.3	5.2±0.2	1.0±0.2	1.1±0.3	2.5±0.3	6.0	3.0	3.0
SMPC0515	5.7±0.3	5.2±0.2	1.3±0.2	1.1±0.3	2.5±0.3	6.0	3.0	3.0
SMPC0518	5.7±0.3	5.2±0.2	1.6±0.2	1.1±0.3	2.5±0.3	6.0	3.0	3.0
SMPC0502	5.7±0.3	5.2±0.2	1.8±0.2	1.1±0.3	2.5±0.3	6.0	3.0	3.0
SMPC0503	5.7±0.3	5.2±0.2	2.8±0.2	1.1±0.3	1.5±0.2	6.0	3.0	3.0
SMPC0612	7.0±0.3	6.6±0.3	1.0±0.2	1.8±0.3	2.5±0.3	7.5	3.0	3.5
SMPC0615	7.0±0.3	6.6±0.3	1.3±0.2	1.8±0.3	3.0±0.3	7.5	3.0	3.5
SMPC0618	7.0±0.3	6.6±0.3	1.6±0.2	1.8±0.3	3.0±0.3	7.5	3.0	3.5
SMPC0602	7.0±0.3	6.6±0.3	1.8±0.2	1.8±0.3	3.0±0.3	7.5	3.0	3.5
SMPC0624	7.0±0.3	6.6±0.3	2.2±0.2	1.8±0.3	3.0±0.3	7.5	3.0	3.5
SMPC0603	7.3±0.3	6.6±0.3	2.8±0.2	1.8±0.3	3.0±0.3	7.5	3.0	3.5
SMPC0604	7.3±0.3	6.6±0.3	3.8±0.2	1.8±0.3	3.0±0.3	7.5	3.0	3.5
SMPC0605	7.3±0.3	6.6±0.3	4.8±0.2	1.8±0.3	3.0±0.3	7.5	3.0	3.5

Series	Dimensions(mm)							
	A	B	C	D	E	L	G	H
SMPC1004	11.0±0.5	10.0±0.3	3.8±0.2	2.3±0.3	3.0±0.3	12.0	5.5	3.5
SMPC1005	11.0±0.5	10.0±0.3	4.8±0.2	2.3±0.3	3.0±0.3	12.0	5.5	3.5
SMPC1235	13.5±0.5	12.5±0.3	3.3±0.2	2.3±0.3	4.7±0.3	14.5	7.5	5.5
SMPC1205	13.5±0.5	12.5±0.3	4.8±0.2	2.3±0.3	4.7±0.3	14.5	7.5	5.5
SMPC1206	13.5±0.5	12.5±0.3	5.7±0.3	2.3±0.3	4.7±0.3	14.5	7.5	5.5
SMPC1265	13.5±0.5	12.5±0.3	6.2±0.3	2.3±0.3	4.7±0.3	14.5	7.5	5.5
SMPC1707	17.3±0.4	16.9±0.3	6.7±0.3	2.1±0.3	11.9±0.3	18.5	11.2	12.7

ELECTRICAL CHARACTERISTICS

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC0312-R47MT	0.47	100	30	7.2	5.0
SMPC0312-R56MT	0.56	100	36	6.6	4.5
SMPC0312-R68MT	0.68	100	40	6.1	4.0
SMPC0312-R82MT	0.82	100	48	5.8	3.5
SMPC0312-1R0MT	1.0	100	60	5.5	3.3
SMPC0312-1R5MT	1.5	100	85	4.0	3.0
SMPC0312-2R2MT	2.2	100	115	3.4	2.7
SMPC0312-3R3MT	3.3	100	210	3.1	2.0
SMPC0312-4R7MT	4.7	100	293	2.8	1.6
SMPC0312-5R6MT	5.6	100	360	2.2	1.5
SMPC0312-6R8MT	6.8	100	400	2.0	1.4
SMPC0312-8R2MT	8.2	100	463	1.7	1.2
SMPC0312-100MT	10	100	550	1.4	1.0

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC0302-R10NT	0.10	100	9	14	10.5
SMPC0302-R47MT	0.47	100	23	9	7.0
SMPC0302-R68MT	0.68	100	29	7	5.5
SMPC0302-1R0MT	1.0	100	38	5	4.0
SMPC0302-2R2MT	2.2	100	75	3.7	3.5
SMPC0302-3R3MT	3.3	100	145	3.5	3.0
SMPC0302-4R7MT	4.7	100	200	3.0	2.6
SMPC0302-5R6MT	5.6	100	238	2.6	2.2
SMPC0302-6R8MT	6.8	100	300	2.2	1.9
SMPC0302-100MT	10	100	422	1.6	1.4

Note:

Isat: DC current at which the inductance drops 30% from its value without current.

Irms: DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$) from 20°C ambient

ELECTRICAL CHARACTERISTICS

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC0412-R10NT	0.10	100	5.5	25	11.5
SMPC0412-R47MT	0.47	100	20	6.5	6.0
SMPC0412-R68MT	0.68	100	37	6.0	5.0
SMPC0412-1R0MT	1.0	100	47	6.0	4.0
SMPC0412-2R2MT	2.2	100	80	3.5	2.8
SMPC0412-3R3MT	3.3	100	97	3.0	2.3
SMPC0412-4R7MT	4.7	100	145	2.5	2.0
SMPC0412-5R6MT	5.6	100	208	2.3	1.7
SMPC0412-6R8MT	6.8	100	360	1.7	1.5
SMPC0412-100MT	10	100	463	1.4	1.3

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC0402-R33MT	0.33	100	8.6	18	10
SMPC0402-R47MT	0.47	100	14	12	8.0
SMPC0402-R68MT	0.68	100	19	10	7.0
SMPC0402-1R0MT	1.0	100	27	8.5	5.0
SMPC0402-2R2MT	2.2	100	61	6.0	4.0
SMPC0402-3R3MT	3.3	100	76	4.0	3.5
SMPC0402-4R7MT	4.7	100	105	3.5	2.6
SMPC0402-6R8MT	6.8	100	172	2.8	2.1
SMPC0402-100MT	10	100	243	2.3	1.8
SMPC0402-220MT	22	100	500	1.4	1.2

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC0512-R10NT	0.10	100	5.2	14.5	14
SMPC0512-R47MT	0.47	100	15.8	11.0	7.0
SMPC0512-R68MT	0.68	100	24.5	9.0	6.0
SMPC0512-1R0MT	1.0	100	30	6.0	5.0
SMPC0512-2R2MT	2.2	100	75	4.0	3.5
SMPC0512-3R3MT	3.3	100	86	3.8	3.0
SMPC0512-4R7MT	4.7	100	115	3.2	2.5
SMPC0512-5R6MT	5.6	100	201	3.2	2.4
SMPC0512-6R8MT	6.8	100	222	3.0	2.0
SMPC0512-100MT	10	100	385	1.8	1.5

Note:

Isat: DC current at which the inductance drops 30% from its value without current.

Irms: DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$) from 20°C ambient

ELECTRICAL CHARACTERISTICS

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC0515-R20NT	0.20	100	4.2	22.5	15
SMPC0515-R47MT	0.47	100	13.8	15	8.0
SMPC0515-R68MT	0.68	100	16.2	13	7.0
SMPC0515-1R0MT	1.0	100	25.3	9.0	6.0
SMPC0515-2R2MT	2.2	100	52	6.0	4.0
SMPC0515-3R3MT	3.3	100	90	4.5	3.2
SMPC0515-4R7MT	4.7	100	118	4.0	2.7
SMPC0515-5R6MT	5.6	100	152	3.2	2.4
SMPC0515-6R8MT	6.8	100	171	3.0	2.3
SMPC0515-100MT	10	100	235	2.3	2.0
SMPC0515-150MT	15	100	466	1.7	1.2

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC0518-R33MT	0.33	100	8.6	15	11
SMPC0518-R47MT	0.47	100	11.3	14	10
SMPC0518-R68MT	0.68	100	14.3	13	9.0
SMPC0518-1R0MT	1.0	100	21.0	10	6.8
SMPC0518-2R2MT	2.2	100	48.3	7.5	4.5
SMPC0518-3R3MT	3.3	100	69	5.0	3.5
SMPC0518-4R7MT	4.7	100	98	4.5	3.0
SMPC0518-5R6MT	5.6	100	127	4.0	2.5
SMPC0518-6R8MT	6.8	100	137	3.5	2.4
SMPC0518-100MT	10	100	190	2.8	2.3
SMPC0518-150MT	15	100	318	2.3	1.7

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC0502-R22MT	0.22	100	5.5	25	15.0
SMPC0502-R47MT	0.47	100	8.6	18	11.5
SMPC0502-R68MT	0.68	100	12.4	13.7	10.0
SMPC0502-1R0MT	1.0	100	20	12.8	7.0
SMPC0502-2R2MT	2.2	100	50	9.0	4.2
SMPC0502-3R3MT	3.3	100	76	7.3	3.3
SMPC0502-4R7MT	4.7	100	116	5.0	2.8
SMPC0502-5R6MT	5.6	100	122	4.0	2.5
SMPC0502-6R8MT	6.8	100	150	3.8	2.4
SMPC0502-100MT	10	100	199	3.4	2.3
SMPC0502-150MT	15	100	270	2.8	1.9

Note:

Isat: DC current at which the inductance drops 30% from its value without current.

Irms: DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$) from 20°C ambient

ELECTRICAL CHARACTERISTICS

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC0503-R15NT	0.15	100	2.7	30	18
SMPC0503-R47MT	0.47	100	7.4	16	12
SMPC0503-R68MT	0.68	100	12	14	8.5
SMPC0503-1R0MT	1.0	100	14	11	7.0
SMPC0503-2R2MT	2.2	100	35	9.0	5.5
SMPC0503-3R3MT	3.3	100	38	8.0	5.0
SMPC0503-4R7MT	4.7	100	53	6.0	4.6
SMPC0503-5R6MT	5.6	100	63	4.5	4.2
SMPC0503-6R8MT	6.8	100	76	4.3	4.0
SMPC0503-100MT	10	100	128	3.5	2.7
SMPC0503-220MT	22	100	250	1.7	1.9

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC0612-R22NT	0.22	100	7.5	19	11
SMPC0612-R47MT	0.47	100	17	12	8.5
SMPC0612-R68MT	0.68	100	19	9.0	7.0
SMPC0612-1R0MT	1.0	100	30	7.0	6.0
SMPC0612-2R2MT	2.2	100	61	5.0	4.0
SMPC0612-3R3MT	3.3	100	103	4.0	3.2
SMPC0612-4R7MT	4.7	100	150	3.8	2.5
SMPC0612-6R8MT	6.8	100	198	3.0	2.1
SMPC0612-100MT	10	100	290	2.5	1.8

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC0615-R22NT	0.22	100	5.2	22	14
SMPC0615-R47MT	0.47	100	10.3	16	9.5
SMPC0615-R68MT	0.68	100	15.2	15	7.5
SMPC0615-1R0MT	1.0	100	25.8	12	6.5
SMPC0615-2R2MT	2.2	100	55	6.5	4.5
SMPC0615-3R3MT	3.3	100	74	6.0	4.2
SMPC0615-4R7MT	4.7	100	111	5.0	3.8
SMPC0615-5R6MT	5.6	100	138	4.5	3.0
SMPC0615-6R8MT	6.8	100	148	3.5	2.6
SMPC0615-100MT	10	100	216	2.8	2.3
SMPC0615-220MT	22	100	504	2.5	1.5

Note:

Isat: DC current at which the inductance drops 30% from its value without current.

Irms: DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$) from 20°C ambient

ELECTRICAL CHARACTERISTICS

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC0618-R22NT	0.22	100	3.0	26	16
SMPC0618-R47MT	0.47	100	7.4	18	12
SMPC0618-R68MT	0.68	100	11	17	10
SMPC0618-1R0MT	1.0	100	17	14	7.0
SMPC0618-2R2MT	2.2	100	35	11	6.0
SMPC0618-3R3MT	3.3	100	46	9.0	5.0
SMPC0618-4R7MT	4.7	100	76	7.0	4.0
SMPC0618-5R6MT	5.6	100	86	6.0	3.5
SMPC0618-6R8MT	6.8	100	104	5.5	3.0
SMPC0618-100MT	10	100	160	3.5	2.3

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC0602-R10NT	0.10	100	2.4	40	21
SMPC0602-R47MT	0.47	100	8.3	20	11.7
SMPC0602-R68MT	0.68	100	10	16	10.5
SMPC0602-1R0MT	1.0	100	18	14	8.0
SMPC0602-2R2MT	2.2	100	37	10	6.0
SMPC0602-3R3MT	3.3	100	48	8.0	5.0
SMPC0602-4R7MT	4.7	100	60	7.0	4.5
SMPC0602-5R6MT	5.6	100	68	6.0	4.0
SMPC0602-6R8MT	6.8	100	73	5.5	4.0
SMPC0602-100MT	10	100	154	4.0	2.8
SMPC0602-220MT	22	100	280	2.5	1.5

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC0624-R22NT	0.22	100	3.2	34	21
SMPC0624-R47MT	0.47	100	5.1	26	15
SMPC0624-R68MT	0.68	100	7.2	21	13
SMPC0624-1R0MT	1.0	100	13.5	16	11
SMPC0624-2R2MT	2.2	100	28	14	7.0
SMPC0624-3R3MT	3.3	100	39	10	6.0
SMPC0624-4R7MT	4.7	100	50	9	5.5
SMPC0624-5R6MT	5.6	100	62	8	5.0
SMPC0624-6R8MT	6.8	100	72	7	4.0
SMPC0624-100MT	10	100	101	5	3.2

Note:

Isat: DC current at which the inductance drops 30% from its value without current.

Irms: DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$) from 20°C ambient

ELECTRICAL CHARACTERISTICS

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC0603-R10NT	0.10	100	1.7	60	32.5
SMPC0603-R22NT	0.22	100	2.8	40	23.0
SMPC0603-R47MT	0.47	100	4.2	26	17.5
SMPC0603-R68MT	0.68	100	5.5	25	15.5
SMPC0603-1R0MT	1.0	100	10	22	11.0
SMPC0603-2R2MT	2.2	100	20	14	8.0
SMPC0603-3R3MT	3.3	100	30	13.5	6.0
SMPC0603-4R7MT	4.7	100	40	10	5.5
SMPC0603-5R6MT	5.6	100	48	9	5.0
SMPC0603-6R8MT	6.8	100	60	8	4.5
SMPC0603-100MT	10	100	85	6	3.5

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC0604-R15NT	0.15	100	1.2	55	30
SMPC0604-R47MT	0.47	100	3.4	28	23
SMPC0604-R68MT	0.68	100	4.5	24	16
SMPC0604-1R0MT	1.0	100	8.0	22	14
SMPC0604-2R2MT	2.2	100	14	14	9.0
SMPC0604-3R3MT	3.3	100	27	12	8.0
SMPC0604-4R7MT	4.7	100	32.5	11	6.0
SMPC0604-5R6MT	5.6	100	38	9.0	5.0
SMPC0604-6R8MT	6.8	100	50	8.5	4.5
SMPC0604-100MT	10	100	72	7.0	4.0
SMPC0604-150MT	15	100	90	3.5	3.0

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC0605-R33MT	0.33	100	3.0	32	25
SMPC0605-R47MT	0.47	100	3.9	30	22
SMPC0605-R68MT	0.68	100	4.5	24	18
SMPC0605-1R0MT	1.0	100	6.5	20	15
SMPC0605-2R2MT	2.2	100	12.0	14	10
SMPC0605-3R3MT	3.3	100	20.9	12	8.0
SMPC0605-4R7MT	4.7	100	30.8	10	6.5
SMPC0605-5R6MT	5.6	100	49.0	9.0	6.0
SMPC0605-6R8MT	6.8	100	51.5	8.5	5.5
SMPC0605-100MT	10	100	69	7.5	4.0
SMPC0605-220MT	22	100	170	5.5	2.5

Note:

Isat: DC current at which the inductance drops 30% from its value without current.

Irms: DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$) from 20°C ambient

ELECTRICAL CHARACTERISTICS

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC1004-R15NT	0.15	100	0.6	75	43
SMPC1004-R47MT	0.47	100	1.5	43	28
SMPC1004-R68MT	0.68	100	2.7	39	22
SMPC1004-1R0MT	1.0	100	3.3	36	18
SMPC1004-2R2MT	2.2	100	7.0	27	12
SMPC1004-3R3MT	3.3	100	11.8	20	11
SMPC1004-4R7MT	4.7	100	15.5	17	10
SMPC1004-5R6MT	5.6	100	19.3	14	9.0
SMPC1004-6R8MT	6.8	100	23.3	13.5	8.5
SMPC1004-8R2MT	8.2	100	26.5	12.5	8.0
SMPC1004-100MT	10	100	30	12.0	7.5
SMPC1004-220MT	22	100	74	7.0	5.0

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC1005-R30MT	0.3	100	0.61	65	38
SMPC1005-R90MT	0.9	100	3.0	32	25
SMPC1005-1R0MT	1.0	100	3.5	30	22
SMPC1005-2R2MT	2.2	100	6.0	24	16
SMPC1005-3R3MT	3.3	100	10.4	22	14
SMPC1005-5R6MT	5.6	100	16.8	16	10
SMPC1005-100MT	10	100	29	13.5	8.0
SMPC1005-330MT	33	100	92	7.5	4.3
SMPC1005-470MT	47	100	145	6.5	3.8
SMPC1005-680MT	68	100	205	4.0	2.5

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC1235-R10MT	0.10	100	0.43	84	43
SMPC1235-R47MT	0.47	100	1.8	55	32
SMPC1235-R68MT	0.68	100	2.5	49	28
SMPC1235-1R0MT	1.0	100	3.5	40	24
SMPC1235-2R2MT	2.2	100	8.0	29	16
SMPC1235-3R3MT	3.3	100	13.5	27	12
SMPC1235-4R7MT	4.7	100	18.5	24	10
SMPC1235-5R6MT	5.6	100	22	19	9.5
SMPC1235-6R8MT	6.8	100	24	18	9.0
SMPC1235-8R2MT	8.2	100	28	16	8.5
SMPC1235-100MT	10	100	34	14	7.0

Note:

Isat: DC current at which the inductance drops 30% from its value without current.

Irms: DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$) from 20°C ambient

ELECTRICAL CHARACTERISTICS

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC1205-R20MT	0.20	100	0.55	110	52
SMPC1205-R47MT	0.47	100	1.1	65	38
SMPC1205-R68MT	0.68	100	1.7	54	34
SMPC1205-1R0MT	1.0	100	2.5	50	29
SMPC1205-2R2MT	2.2	100	5.5	32	20
SMPC1205-3R3MT	3.3	100	9.2	32	15
SMPC1205-4R7MT	4.7	100	15.0	27	12
SMPC1205-6R8MT	6.8	100	18.5	21	11
SMPC1205-8R2MT	8.2	100	22.5	18	9.5
SMPC1205-100MT	10	100	25.5	16	9.0
SMPC1205-220MT	22	100	28.0	10	6.5

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC1206-1R0MT	1.0	100	2.4	45	29
SMPC1206-2R2MT	2.2	100	4.7	34	21
SMPC1206-3R3MT	3.3	100	7.1	28	17
SMPC1206-4R7MT	4.7	100	11.5	25	16
SMPC1206-5R6MT	5.6	100	12.6	22	15.5
SMPC1206-6R8MT	6.8	100	13.8	19	15.0
SMPC1206-100MT	10	100	20.7	15.5	11.0
SMPC1206-220MT	22	100	39.5	11.0	8.0
SMPC1206-330MT	33	100	75	8.0	6.0
SMPC1206-470MT	47	100	90	7.0	5.5

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC1265-R15NT	0.15	100	0.6	118	55
SMPC1265-R47MT	0.47	100	1.2	63	41
SMPC1265-1R0MT	1.0	100	2.3	48	30
SMPC1265-2R2MT	2.2	100	4.2	37	22
SMPC1265-3R3MT	3.3	100	6.8	30	18
SMPC1265-4R7MT	4.7	100	8.4	28	13.5
SMPC1265-5R6MT	5.6	100	10.0	23	12.5
SMPC1265-6R8MT	6.8	100	11.5	18	11.5
SMPC1265-100MT	10	100	16.5	15.5	10.0
SMPC1265-220MT	22	100	37	12.0	9.0
SMPC1265-330MT	33	100	58	11.0	8.0
SMPC1265-470MT	47	100	90	9.5	6.5

Note:

Isat: DC current at which the inductance drops 30% from its value without current.

Irms: DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$) from 20°C ambient

ELECTRICAL CHARACTERISTICS

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SMPC1707-1R0MT	1.0	100	2.0	60	52
SMPC1707-2R2MT	2.2	100	2.7	47	43
SMPC1707-3R3MT	3.3	100	3.9	45	28
SMPC1707-4R7MT	4.7	100	5.5	41	25
SMPC1707-5R6MT	5.6	100	7.1	40	21
SMPC1707-6R8MT	6.8	100	9.2	32	19
SMPC1707-100MT	10	100	13.0	24	16.5
SMPC1707-220MT	22	100	26.5	18	12.0
SMPC1707-330MT	33	100	44	15	10.7
SMPC1707-470MT	47	100	55	9.5	8.7
SMPC1707-680MT	68	100	80	8.0	7.0
SMPC1707-101MT	100	100	118	6.5	5.3

Note:

Isat: DC current at which the inductance drops 30% from its value without current.

Irms: DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$) from 20°C ambient