

GSHM Series

● Features

RoHS compliant.

Super low resistance, ultra high current rating.

High performance (I sat) realized by metal dust core.

Frequency Range: up to 1MHz.

● Applications

PDA, notebook, desktop, and server applications.

Low profile, high current power supplies.

Battery powered devices.

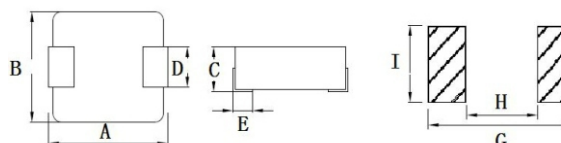
DC/DC converters in distributed power systems.

DC/DC converters for field programmable gate array.

● Operating temperature: -55 °C to +125 °C



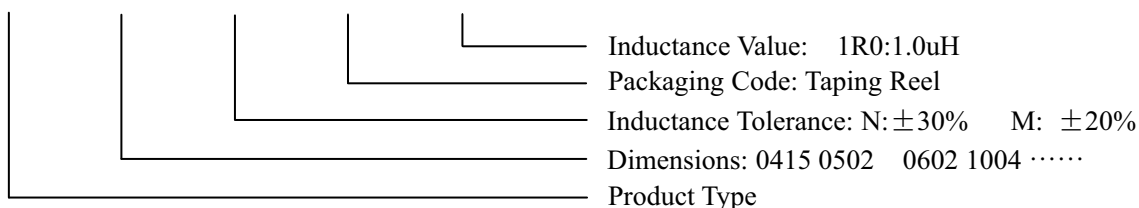
● Dimensions and Land Patterns. (UNIT: mm)



PartNo.	A(Max)	B(Max)	C(Max)	D	E	I	H	G
GSHM0415	4.9	4.5	1.5	1.5±0.5	1.0±0.3	2.30	2.16	4.95
GSHM0418	4.9	4.5	1.8	1.5±0.5	1.0±0.3	2.30	2.16	4.95
GSHM0402	4.9	4.5	2.0	1.5±0.5	1.0±0.3	2.30	2.16	4.95
GSHM0515	5.9	5.2	1.5	2.0±0.5	1.2±0.5	2.50	3.00	7.00
GSHM0502	5.9	5.2	2.0	2.0±0.5	1.0±0.3	2.50	3.00	7.00
GSHM0503	5.9	5.2	3.0	2.0±0.5	1.0±0.3	2.50	3.00	7.00
GSHM0504	5.9	5.2	4.0	2.0±0.5	1.0±0.3	2.50	3.00	7.00
GSHM0505	5.9	5.2	5.0	2.0±0.5	1.0±0.3	2.50	3.00	7.00
GSHM0506	5.9	5.2	6.0	2.0±0.5	1.2±0.5	2.50	3.00	7.00
GSHM0615	7.8	7.0	1.5	3.0±0.3	1.5±0.5	3.43	3.71	7.37
GSHM0618	7.8	7.0	1.8	3.0±0.3	1.5±0.5	3.43	3.71	7.37
GSHM0602	7.8	7.0	2.0	3.0±0.3	1.5±0.5	3.43	3.71	7.37
GSHM0624	7.8	7.0	2.4	3.0±0.3	1.5±0.5	3.43	3.71	7.37
GSHM0603	7.8	7.0	3.0	3.0±0.3	1.5±0.5	3.43	3.71	7.37
GSHM0604	7.8	7.0	4.0	3.0±0.3	1.5±0.5	3.43	3.71	7.37
GSHM0605	7.9	7.0	5.0	3.0±0.3	1.5±0.5	3.43	3.71	7.37
GSHM0606	7.9	7.0	6.0	3.0±0.3	1.5±0.5	3.43	3.71	7.37
GSHM1003	11.8	10.8	3.0	3.0±0.5	2.0±0.5	4.10	5.40	13.6
GSHM1004	11.8	10.8	4.0	3.0±0.5	2.0±0.5	4.10	5.40	13.6
GSHM1005	11.8	10.8	5.0	3.0±0.5	2.0±0.5	4.10	5.40	13.6
GSHM1006	11.8	10.8	6.0	3.0±0.5	2.0±0.5	4.10	5.40	13.6
GSHM1235	14.5	13.5	3.5	3.5±0.5	2.5±0.5	4.50	8.00	14.5
GSHM1204	14.5	13.5	4.0	3.5±0.5	2.5±0.5	4.50	8.00	14.5
GSHM1205	14.5	13.5	5.0	3.5±0.5	2.5±0.5	4.50	8.00	14.5
GSHM1206	14.5	13.5	6.0	3.5±0.5	2.5±0.5	4.50	8.00	14.5
GSHM1265	14.5	13.5	6.5	3.5±0.5	2.5±0.5	4.50	8.00	14.5
GSHM1770	17.5	19.0	7.0	11.7±0.3	3.3±0.5	13.0	11.2	19.5

● Part Numbering

GSHM 0402 M T 1R0



Electrical characteristics List

GSHM0415 Series

PART No.	INDUCTANCE Lo(μ H) $\pm 20\%$	DCR(m Ω)		HEAT RATING CURRENT(Idc)	SATURATION CURRENT(Isat)
		Typ.	Max		
GSHM0415MTR22	0.22	7.50	9	6.0	9.0
GSHM0415MTR47	0.47	14.7	20	5.0	7.0
GSHM0415MT1R0	1.0	35.0	45	3.5	5.0
GSHM0415MT1R5	1.5	46.0	63	3.0	4.0
GSHM0415MT2R2	2.2	76.0	100	2.5	3.0
GSHM0415MT4R7	4.7	115	140	2.0	2.5

GSHM0418 Series

PART No.	INDUCTANCE Lo(μ H) $\pm 20\%$	DCR(m Ω)		HEAT RATING CURRENT(Idc)	SATURATION CURRENT(Isat)
		Typ.	Max		
GSHM0418MT1R0	1.0	25	27	4.5	7.0
GSHM0418MT1R5	1.5	32	48	4.0	6.0
GSHM0418MT2R2	2.2	47	58	3.0	5.0
GSHM0418MT4R7	4.7	96	150	2.0	3.0

GSHM0420 Series

PART No.	INDUCTANCE Lo(μ H) $\pm 20\%$	DCR(m Ω)		HEAT RATING CURRENT(Idc)	SATURATION CURRENT(Isat)
		Typ.	Max		
GSHM0402MTR22	0.22	6.2	8	9.0	12
GSHM0402MTR33	0.33	8.0	10	8.0	11
GSHM0402MTR36	0.36	8.6	12	7.0	10
GSHM0402MTR47	0.47	10.0	14	6.0	9.5
GSHM0402MTR56	0.56	14.0	18	5.0	8.0
GSHM0402MTR68	0.68	14.0	21	5.2	8.0
GSHM0402MT1R0	1.0	25.0	27	4.5	7.0
GSHM0402MT1R5	1.5	32.0	45	4.0	6.0
GSHM0402MT2R2	2.2	47.0	58	3.0	5.0
GSHM0402MT2R7	2.7	47.1	58	3.0	4.0
GSHM0402MT3R3	3.3	85.0	90	2.0	3.0
GSHM0402MT4R7	4.7	105	150	2.0	3.0
GSHM0402MT6R8	6.8	130	170	2.0	2.5
GSHM0402MT100	10	170	200	1.5	1.8

Electrical characteristics List

GSHM0515 Series

PART No.	INDUCTANCE Lo(μ H) $\pm$ 20%	DCR(m Ω)		HEAT RATING CURRENT(I _{dc})	SATURATION CURRENT(I _{sat})
		Typ.	Max		
GSHM0515MT1R0	1.0	18	25	5.0	7.0
GSHM0515MT2R2	2.2	78	85	3.0	5.0
GSHM0515MT4R7	4.7	108	120	2.5	3.0

GSHM0502 Series

PART No.	INDUCTANCE Lo(μ H) $\pm$ 20%	DCR(m Ω)		HEAT RATING CURRENT(I _{dc})	SATURATION CURRENT(I _{sat})
		Typ.	Max		
GSHM0502MTR22	0.22	4.6	6	10.5	16
GSHM0502MTR33	0.33	7.5	9	10.0	15
GSHM0502MTR47	0.47	8.2	10	9.0	12
GSHM0502MTR68	0.68	12.5	16	7.0	11
GSHM0502MT1R0	1.0	13	17	7.0	8.0
GSHM0502MT1R5	1.5	21	28	5.0	7.0
GSHM0502MT2R2	2.2	31	45	4.0	6.0
GSHM0502MT3R3	3.3	53	80	3.5	5.0
GSHM0502MT4R7	4.7	66	85	3.0	3.5
GSHM0502MT6R8	6.8	93	100	2.0	3.0
GSHM0502MT100	10	170	190	1.5	2.5

GSHM0503 Series

PART No.	INDUCTANCE Lo(μ H) $\pm$ 20%	DCR(m Ω)		HEAT RATING CURRENT(I _{dc})	SATURATION CURRENT(I _{sat})
		Typ.	Max		
GSHM0503MTR47	0.47	8	11	10	13
GSHM0503MTR68	0.68	9	12	9.0	12
GSHM0503MT1R0	1.0	14	16	7.0	11
GSHM0503MT1R5	1.5	17	22	5.0	10
GSHM0503MT2R2	2.2	28	35	4.0	9.0
GSHM0503MT3R3	3.3	31	38	3.5	7.0
GSHM0503MT4R7	4.7	42	60	3.0	5.0
GSHM0503MT6R8	6.8	77	90	2.5	3.5
GSHM0503MT100	10	82	100	2.0	3.0
GSHM0503MT150	15	146	165	1.5	2.0
GSHM0503MT220	22	203	230	1.5	1.5

GSHM0504 Series

PART No.	INDUCTANCE Lo(μ H) $\pm$ 20%	DCR(m Ω)		HEAT RATING CURRENT(I _{dc})	SATURATION CURRENT(I _{sat})
		Typ.	Max		
GSHM0504MT2R2	2.2	29	35	5.5	9.0
GSHM0504MT100	10	77	90	3.0	4.0

Electrical characteristics List

GSHM0505 Series

PART No.	INDUCTANCE Lo(μH)±20%	DCR(mΩ)		HEAT RATING CURRENT(Idc)	SATURATION CURRENT(Isat)
		Typ.	Max		
GSHM0505MT4R7	4.6	46	50	5.0	6.0
GSHM0505MT6R8	6.8	58	70	3.0	5.5
GSHM0505MT150	15	104	138	2.5	3.5
GSHM0505MT220	22	196	238	1.5	2.0

GSHM0506 Series

PART No.	INDUCTANCE Lo(μH)±20%	DCR(mΩ)		HEAT RATING CURRENT(Idc)	SATURATION CURRENT(Isat)
		Typ.	Max		
GSHM0506MT220	22	110	140	1.5	2.5

GSHM0615 Series

PART No.	INDUCTANCE Lo(μH)±20%	DCR(mΩ)		HEAT RATING CURRENT(Idc)	SATURATION CURRENT(Isat)
		Typ.	Max		
GSHM0615MT2R2	2.2	34	40	3.0	5.5
GSHM0615MT4R7	4.7	83	90	2.5	4.5

GSHM0618 Series

PART No.	INDUCTANCE Lo(μH)±20%	DCR(mΩ)		HEAT RATING CURRENT(Idc)	SATURATION CURRENT(Isat)
		Typ.	Max		
GSHM0618MTR47	0.47	7.2	8.4	11.0	18
GSHM0618MTR68	0.68	9.5	12	10.5	16
GSHM0618MT1R0	1.0	17	22	6.0	11
GSHM0618MT1R5	1.5	23	30	6.5	9.8
GSHM0618MT2R2	2.2	31	35	6.0	9.0
GSHM0618MT3R3	3.3	62	68	3.5	8.0
GSHM0618MT4R7	4.7	67	75	3.0	5.0
GSHM0618MT100	10.0	99	137	2.0	3.0

GSHM0602 Series

PART No.	INDUCTANCE Lo(μH)±20%	DCR(mΩ)		HEAT RATING CURRENT(Idc)	SATURATION CURRENT(Isat)
		Typ.	Max		
GSHM0602MTR68	0.68	8.8	10	10.5	16
GSHM0602MT1R0	1.0	16	20	7.0	14
GSHM0602MT1R5	1.5	23	30	6.0	12
GSHM0602MT2R2	2.2	31	35	5.0	10
GSHM0602MT3R3	3.3	50	64	3.5	7.5
GSHM0602MT4R7	4.7	64	70	3.5	6.0
GSHM0602MT6R8	6.8	85	100	3.0	4.0
GSHM0602MT100	10.0	102	154	2.8	3.5

Electrical characteristics List

GSHM0624 Series

PART No.	INDUCTANCE Lo(μ H) $\pm$ 20%	DCR(m Ω)		HEAT RATING CURRENT(I _{dc})	SATURATION CURRENT(I _{sat})
		Typ.	Max		
GSHM0624MTR22	0.22	2.2	2.8	17	35
GSHM0624MTR47	0.47	5.9	6.8	13	21
GSHM0624MTR68	0.68	6.9	8.0	9.0	20
GSHM0624MT1R0	1.0	9.0	11	7.0	13
GSHM0624MT1R5	1.5	14	20	6.5	12
GSHM0624MT2R2	2.2	22	26	6.0	11
GSHM0624MT2R7	2.7	23	28	5.8	8.7
GSHM0624MT4R7	4.7	59	73	5.5	8.0
GSHM0624MT5R6	5.6	74	80	5.0	7.0
GSHM0624MT6R8	6.8	81	90	3.0	5.0
GSHM0624MT100	10	97	105	3.0	4.5

GSHM0603 Series

PART No.	INDUCTANCE Lo(μ H) $\pm$ 20%	DCR(m Ω)		HEAT RATING CURRENT(I _{dc})	SATURATION CURRENT(I _{sat})
		Typ.	Max		
GSHM0603MTR22	0.22	2.7	3.5	20	40
GSHM0603MTR33	0.33	3.2	3.9	20	30
GSHM0603MTR47	0.47	3.2	4.5	17.5	25
GSHM0603MTR56	0.56	4.6	5.5	15.5	24
GSHM0603MTR68	0.68	4.6	5.5	14.0	23
GSHM0603MTR82	0.82	6.5	8.0	13.0	20
GSHM0603MT1R0	1.0	7.5	9.0	11.0	16
GSHM0603MT1R5	1.5	11	15	9.0	14
GSHM0603MT2R2	2.2	15	20	8.0	12
GSHM0603MT3R3	3.3	28	30	6.0	10
GSHM0603MT4R7	4.7	38	40	5.5	9.0
GSHM0603MT5R6	5.6	50	60	5.0	7.0
GSHM0603MT6R8	6.8	51	60	4.5	6.0
GSHM0603MT8R2	8.2	75	80	4.0	6.0
GSHM0603MT100	10.0	99	105	3.0	5.5
GSHM0603MT150	15.0	110	140	2.8	4.0
GSHM0603MT220	22.0	125	167	2.5	3.5

GSHM0604 Series

PART No.	INDUCTANCE Lo(μ H) $\pm$ 20%	DCR(m Ω)		HEAT RATING CURRENT(I _{dc})	SATURATION CURRENT(I _{sat})
		Typ.	Max		
GSHM0604MTR56	0.56	4.2	5.5	14	22
GSHM0604MTR68	0.68	4.2	5.5	13	20
GSHM0604MT1R0	1.0	7.4	8.5	12	19
GSHM0604MT1R5	1.5	12	15	10	16
GSHM0604MT2R2	2.2	13	18	8.5	14
GSHM0604MT3R3	3.3	17	20	7.0	13
GSHM0604MT4R7	4.7	23	28	6.0	8

Electrical characteristics List

GSHM0605 Series

PART No.	INDUCTANCE Lo(μ H) $\pm$ 20%	DCR(m Ω)		HEAT RATING CURRENT(Idc)	SATURATION CURRENT(Isat)
		Typ.	Max		
GSHM0605MTR22	0.22	2.3	3.5	20.0	45
GSHM0605MTR47	0.47	3.5	4.5	18.0	21
GSHM0605MTR56	0.56	4.6	6.0	17.0	25
GSHM0605MTR68	0.68	5.5	6.5	14.0	19
GSHM0605MTR82	0.82	6.5	7.5	14.0	18
GSHM0605MT1R0	1.0	7.0	8.5	13.0	17
GSHM0605MT1R5	1.5	7.5	9.0	11.5	12
GSHM0605MT2R2	2.2	10	12.5	8.0	12
GSHM0605MT3R3	3.3	14	20	7.0	9.0
GSHM0605MT3R8	3.8	19	25	6.5	8.0
GSHM0605MT4R7	4.7	13	15	6.0	7.0
GSHM0605MT4R9	4.9	15	16	6.0	6.5
GSHM0605MT5R6	5.6	25	30	6.0	6.0
GSHM0605MT6R8	6.8	26	38	5.0	6.0
GSHM0605MT8R2	8.2	36	40	4.0	6.0
GSHM0605MT100	10	51	60	4.5	5.3
GSHM0605MT150	15	65	85	3.0	5.0
GSHM0605MT220	22	77	85	3.0	4.0
GSHM0605MT330	33	184	237	2.0	3.0
GSHM0605MT470	47	193	280	2.0	2.0
GSHM0605MT680	68	257	280	1.3	1.8

GSHM0606 Series

PART No.	INDUCTANCE Lo(μ H) $\pm$ 20%	DCR(m Ω)		HEAT RATING CURRENT(Idc)	SATURATION CURRENT(Isat)
		Typ.	Max		
GSHM0606MT2R2	2.2	8	10	11	14
GSHM0606MT3R3	3.3	9	11	8	12
GSHM0606MT6R8	6.8	19	22	5	7.5

Electrical characteristics List

GSHM1003 Series

PART No.	INDUCTANCE Lo(μ H) $\pm$ 20%	DCR(m Ω)		HEAT RATING CURRENT(Idc)	SATURATION CURRENT(Isat)
		Typ.	Max		
GSHM1003MT1R0	1.0	5.1	7.0	13	18
GSHM1003MT1R5	1.5	7.3	9.0	10	16
GSHM1003MT2R2	2.2	10.0	12	9.0	14
GSHM1003MT4R7	4.7	20.7	25	6.0	8.5
GSHM1003MT8R2	8.2	47.0	55	4.0	6.0
GSHM1003MT100	10	49.0	56	4.0	5.0
GSHM1003MT150	15	63.6	65	3.5	4.0

GSHM1004 Series

PART No.	INDUCTANCE Lo(μ H) $\pm$ 20%	DCR(m Ω)		HEAT RATING CURRENT(Idc)	SATURATION CURRENT(Isat)
		Typ.	Max		
GSHM1004MTR22	0.22	0.7	1.1	30	60
GSHM1004MTR33	0.33	1.1	1.4	30	50
GSHM1004MTR36	0.36	1.1	1.4	30	50
GSHM1004MTR47	0.47	1.2	1.8	26	38
GSHM1004MTR56	0.56	1.5	1.8	23	33
GSHM1004MTR68	0.68	2.0	3.0	23	32
GSHM1004MTR90	0.9	2.2	3.0	21	30
GSHM1004MT1R0	1.0	3.6	4.1	18	28
GSHM1004MT1R5	1.5	4.8	5.8	16	27
GSHM1004MT2R2	2.2	7.0	9.0	12	25
GSHM1004MT3R3	3.3	10.3	13.5	10	16
GSHM1004MT3R9	3.9	13.7	16.0	10	16
GSHM1004MT4R7	4.7	13.7	16.5	8.0	14
GSHM1004MT5R6	5.6	18.2	25.0	8.0	13
GSHM1004MT6R8	6.8	23.5	28.0	7.0	12
GSHM1004MT8R2	8.2	25.0	30.0	6.0	9.0
GSHM1004MT100	10	31.0	36.5	5.0	9.0
GSHM1004MT120	12	42.0	48.0	5.0	8.0
GSHM1004MT150	15	42.0	48.0	4.0	7.0
GSHM1004MT220	22	55.0	60.0	3.5	6.0
GSHM1004MT330	33	127	145	3.0	4.5
GSHM1004MT470	47	128	145	3.0	3.0
GSHM1004MT680	68	205	220	2.0	3.5
GSHM1004MT101	100	243	270	1.0	2.0

Electrical characteristics List

GSHM1005 Series

PART No.	INDUCTANCE Lo(μ H) $\pm$ 20%	DCR(m Ω)		HEAT RATING CURRENT(Idc)	SATURATION CURRENT(Isat)
		Typ.	Max		
GSHM1005MTR82	0.82	1.8	2.5	16	32.0
GSHM1005MT1R0	1.0	3.0	4.0	15	30.0
GSHM1005MT1R8	1.8	4.5	6.0	15	27.5
GSHM1005MT2R2	2.2	6.0	8.0	14	27.0
GSHM1005MT3R3	3.3	7.5	11	10	19.0
GSHM1005MT4R7	4.7	14.0	17	9.0	14.0
GSHM1005MT6R8	6.8	17.5	22	8.0	10.0
GSHM1005MT100	10	31.0	38	6.8	10.0
GSHM1005MT150	15	39.0	45	6.0	10.0
GSHM1005MT220	22	52.0	60	5.0	7.0
GSHM1005MT330	33	127	145	3.5	6.0

GSHM1006 Series

PART No.	INDUCTANCE Lo(μ H) $\pm$ 20%	DCR(m Ω)		HEAT RATING CURRENT(Idc)	SATURATION CURRENT(Isat)
		Typ.	Max		
GSHM1006MT1R0	1.0	2.3	3	16	27
GSHM1006MT1R5	1.5	4.0	5	15	25
GSHM1006MT2R2	2.2	5.1	7	14	20
GSHM1006MT3R3	3.3	7.0	9	13	19
GSHM1006MT4R7	4.7	14	17	9	15
GSHM1006MT6R8	6.8	18	24	8	13
GSHM1006MT100	10	28	35	7	11

Electrical characteristics List

GSHM1235 Series

PART No.	INDUCTANCE Lo(μ H) $\pm$ 20%	DCR(m Ω)		HEAT RATING CURRENT(I _{dc})	SATURATION CURRENT(I _{sat})
		Typ.	Max		
GSHM1235MTR22	0.22	0.85	1.3	25	65
GSHM1235MTR68	0.68	2.10	2.5	20	49
GSHM1235MTR47	0.47	1.17	1.7	18	35
GSHM1235MT1R0	1.0	3.30	3.5	15	26
GSHM1235MT1R5	1.5	4.30	5.0	15	24
GSHM1235MT2R2	2.2	7.00	8.0	14	20
GSHM1235MT3R3	3.3	10	12	12	16
GSHM1235MT4R7	4.7	14	15	10	14
GSHM1235MT6R8	6.8	21	25	8	12
GSHM1235MT100	10	28	35	6	10

GSHM1204 Series

PART No.	INDUCTANCE Lo(μ H) $\pm$ 20%	DCR(m Ω)		HEAT RATING CURRENT(I _{dc})	SATURATION CURRENT(I _{sat})
		Typ.	Max		
GSHM1204MTR47	0.47	1.50	2.0	23	55
GSHM1204MTR60	0.60	2.00	3.0	22	40
GSHM1204MT1R0	1.0	2.70	3.5	19	38
GSHM1204MT1R5	1.5	3.26	4.5	16	30
GSHM1204MT1R8	1.8	6.40	8.3	16	26
GSHM1204MT2R2	2.2	6.30	9.5	15	22
GSHM1204MT3R3	3.3	8.70	10	14	20
GSHM1204MT4R7	4.7	12.0	14	9	15
GSHM1204MT5R6	5.6	15.0	17	8	14
GSHM1204MT6R8	6.8	17.0	24	7	12
GSHM1204MT8R2	8.2	24.4	28	7	12
GSHM1204MT100	10	28.0	35	6	10
GSHM1204MT150	15	55.3	60	5	9
GSHM1204MT220	22	69.3	80	4	7

Electrical characteristics List

GSHM1205 Series

PART No.	INDUCTANCE Lo(μ H) $\pm$ 20%	DCR(m Ω)		HEAT RATING CURRENT(Idc)	SATURATION CURRENT(Isat)
		Typ.	Max		
GSHM1205MTR33	0.33	0.74	1.0	32	60
GSHM1205MTR36	0.36	0.9	1.2	28	50
GSHM1205MTR47	0.47	1.04	1.3	25	48
GSHM1205MTR56	0.56	1.35	1.5	23	46
GSHM1205MTR68	0.68	1.3	1.5	20	40
GSHM1205MTR82	0.82	2.0	2.5	19	39
GSHM1205MT1R0	1.0	2.4	3.5	18	35
GSHM1205MT1R5	1.5	2.8	4.1	18	33
GSHM1205MT1R8	1.8	3.0	4.3	17	30
GSHM1205MT2R2	2.2	3.3	4.5	16	25
GSHM1205MT3R3	3.3	10.2	13.0	15	23
GSHM1205MT4R7	4.7	13.5	15.0	12	21
GSHM1205MT5R6	5.6	14.0	17.0	12	20
GSHM1205MT6R8	6.8	15.4	19.0	11	18
GSHM1205MT8R2	8.2	18.9	22.5	10	17
GSHM1205MT100	10.0	23	25.5	6.0	13
GSHM1205MT150	15.0	51	60.0	6.0	12
GSHM1205MT220	22.0	63	75.0	4.0	8
GSHM1205MT330	33.0	69	82.0	3.0	6
GSHM1205MT470	47.0	78	90.0	2.5	3.5
GSHM1205MT560	56.0	143	180	2.0	3.5
GSHM1205MT680	68.0	154	210	1.5	3.5

GSHM1206 Series

PART No.	INDUCTANCE Lo(μ H) $\pm$ 20%	DCR(m Ω)		HEAT RATING CURRENT(Idc)	SATURATION CURRENT(Isat)
		Typ.	Max		
GSHM1206MTR33	0.33	1.3	2.3	46	55
GSHM1206MTR68	0.68	1.5	2.8	35	45
GSHM1206MT1R0	1.0	1.8	3.5	21	40
GSHM1206MT2R2	2.2	3.3	4.5	20	32
GSHM1206MT3R3	3.3	6.4	8.2	15	30
GSHM1206MT4R7	4.7	10	13.5	12	25
GSHM1206MT5R6	5.6	17	21.0	12	22
GSHM1206MT6R8	6.8	18	23.0	11	20
GSHM1206MT100	10	22	30.0	10	12.5
GSHM1206MT220	22	38	45.0	5.0	7.50

Electrical characteristics List

GSHM1265 Series

PART No.	INDUCTANCE Lo(μ H) $\pm$ 20%	DCR(m Ω)		HEAT RATING CURRENT(I _{dc})	SATURATION CURRENT(I _{sat})
		Typ.	Max		
GSHM1265MTR22	0.22	0.60	0.81	60	60.0
GSHM1265MTR56	0.56	1.2	1.7	30	60.0
GSHM1265MTR68	0.68	1.3	1.8	28	54.0
GSHM1265MTR82	0.82	1.6	2.0	25	50.0
GSHM1265MT1R0	1.0	1.7	2.5	25	49.0
GSHM1265MT1R5	1.5	1.9	3.5	22	45.0
GSHM1265MT2R2	2.2	3.5	4.5	18	40.0
GSHM1265MT3R3	3.3	5.5	8.2	16	28.0
GSHM1265MT4R7	4.7	11	14	14	22.5
GSHM1265MT5R6	5.6	12	15	12	20.0
GSHM1265MT6R8	6.8	10	13	11.5	18.0
GSHM1265MT8R2	8.2	17	25	10.0	16.0
GSHM1265MT100	10.0	16	25	10.0	15.5
GSHM1265MT150	15.0	31	38	6.0	9.0
GSHM1265MT220	22.0	42	48	5.0	7.5
GSHM1265MT330	33.0	61	66	4.0	6.5
GSHM1265MT470	47.0	80	90	3.5	5.0
GSHM1265MT560	56.0	90	110	3.0	4.0
GSHM1265MT680	68.0	92	123	2.5	3.0

Electrical characteristics List

GSHM1770 Series

PARTNo.	INDUCTANCE Lo(μ H) $\pm$ 20%	DCR($m\Omega$)		HEAT RATING CURRENT(I _{dc})	SATURATION CURRENT(I _{sat})
		Typ.	Max		
GSHM1770MTR22	0.22	0.55	0.70	60	100
GSHM1770MTR33	0.33	0.70	0.80	55	90
GSHM1770MTR47	0.47	0.80	1.00	50	80
GSHM1770MTR56	0.56	0.90	1.15	46	70
GSHM1770MTR82	0.82	1.17	1.30	42	60
GSHM1770MT1R0	1.0	1.45	1.70	38	50
GSHM1770MT1R5	1.5	1.80	2.15	35	45
GSHM1770MT2R2	2.2	2.15	2.60	25	34
GSHM1770MT3R3	3.3	2.61	3.50	17	24
GSHM1770MT4R7	4.7	3.38	5.00	15	21
GSHM1770MT6R8	6.8	5.53	7.00	15	18
GSHM1770MT8R2	8.2	7.00	9.00	12	18
GSHM1770MT100	10	8.00	10	11	17
GSHM1770MT150	15	12.00	15	9.0	12
GSHM1770MT220	22	19.18	25	7.0	9.5
GSHM1770MT330	33	30.65	35	6.5	9.0
GSHM1770MT470	47	36.75	40	5.5	7.5
GSHM1770MT680	68	61.00	80	4.0	5.0
GSHM1770MT820	82	95.55	105	4.0	4.5
GSHM1770MT101	100	111	120	3.0	4.0

NOTES:

1. I_{dc} : DC current (A) that will cause an approximate ΔT of 40°C
2. I_{sat} : DC current (A) that will cause Lo to drop approximately 35%
3. All test data is referenced to 25°C ambient
4. The part temperature (ambient + temp rise) should not exceed 125°C under the worst 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.
5. TEST FREQUENCY: 100KHz, 0.25V
6. TESTING INSTRUMENT
 L : Agilent 4284A, WK4235, CH3302/G LCR METER
 CH1320, CH1320S BIAS CURRENT SOURCE
 R_{dc} : CH502BC MICRO OHMMETER