

SHENZHEN HIGHSTARTECH ELECTRONICS CO., LTD

HSSFM SERIES

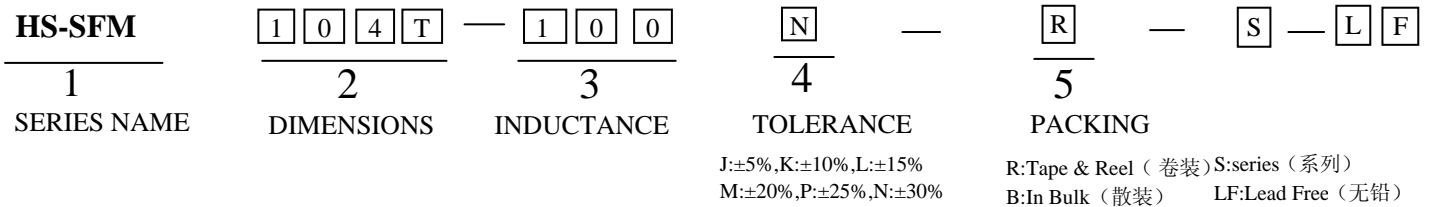
1. FEATURES:

Various high power inductors are superior to be high saturation for surface mounting.

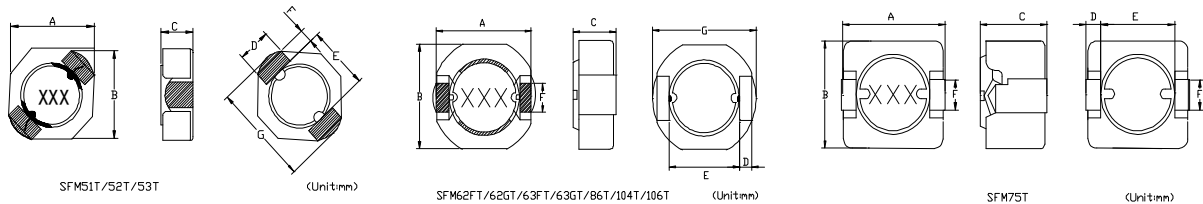
2. APPLICATIONS:

- (1) Power supply for VTR,OA equipment.
- (2) Digital camera, LCD television set.
- (3) Notebook PC, portable communication equipments.
- (4) DC/DC converters, etc.

3. PART NUMBER SYSTEM:



4. PHYSICAL CHARACTERISTICS:



UNIT : mm

Type	A(max)	B(max)	C(max)	D	E	F
HS-SFM51T	5.2	5.2	1.8	1.4	4.2	0.6
HS-SFM52T	5.2	5.2	2	1.4	4.2	0.6
HS-SFM53T	5.2	5.2	3	1.4	4.2	0.6
Type	A(max)	B(max)	C(max)	D	E	F
HS-SFM62FT	6.3	6.2	2	0.6	4.8	2.0
HS-SFM62GT	6.3	6.2	2.5	0.6	4.8	2.0
HS-SFM63FT	6.3	6.2	3.0	0.6	4.8	2.0
HS-SFM63GT	6.3	6.2	3.5	0.6	4.8	2.0
HS-SFM75T	7.6	7.6	5.0	1.0	5.3	2.0
HS-SFM86T	8.4	8.3	6.8	2.0	4.1	3.0
HS-SFM104T	10.4	10.3	4.8	2.0	6.0	3.0
HS-SFM106T	10.4	10.3	6.8	2.0	6.0	3.0

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5. ELECTRICAL CHARACTERISTICS:

HS-SFM51T

Part Number	Inductance (μ H)	Tolertance (%)	DCR		Rated DC Current max.(A)
			max(mΩ)	Typ(mΩ)	
HS-SFM51T-1R2M	1.2	±20	46	38	1.8
HS-SFM51T-1R8M	1.8	±20	54	45	1.6
HS-SFM51T-2R3M	2.3	±20	63	52	1.5
HS-SFM51T-3R6M	3.6	±20	82	68	1.2
HS-SFM51T-4R3M	4.3	±20	92	78	1.1
HS-SFM51T-5R1M	5.1	±20	105	85	1
HS-SFM51T-6R8M	6.8	±20	130	104	0.94
HS-SFM51T-100M	10	±20	180	148	0.8
HS-SFM51T-150M	15	±20	270	222	0.64
HS-SFM51T-180M	18	±20	320	263	0.56
HS-SFM51T-220M	22	±20	450	372	0.49
HS-SFM51T-330M	33	±20	640	528	0.41
HS-SFM51T-470M	47	±20	930	776	0.33

(1) Inductance is measured with a LCR meter 4284A(Agilent) or equivalent . Test frequency at 100KHz

(2) DC resistance is measured with a Digital Multimeter TR6871 (Advantest) or equivalent.

(3) Maximum allowable DC current is that which causes a 30% inductance reduction from the initial value,or coil temperature to rise by 40°C,whichever is smaller.(Reference ambient temperature 20°C)

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HS-SFM52T

Part Number	Inductance (μ H)	Tolerance (%)	DC Resistance (m Ω)typ	Isat (A)	Temperature Rise current (A)max
HS-SFM52T-1R2M	1.2	±20	37	2.15	2.29
HS-SFM52T-2R5M	2.2	±20	49	1.63	1.64
HS-SFM52T-3R5M	3.5	±20	61	1.34	1.45
HS-SFM52T-4R7M	4.7	±20	72	1.14	1.22
HS-SFM52T-6R8M	6.8	±20	84	0.95	1.1
HS-SFM52T-100M	10.0	±20	125	0.76	0.87
HS-SFM52T-150M	15.0	±20	175	0.63	0.72
HS-SFM52T-220M	22.0	±20	230	0.56	0.66
HS-SFM52T-330M	33.0	±20	375	0.44	0.48
HS-SFM52T-470M	47.0	±20	605	0.36	0.35
HS-SFM52T-680M	68.0	±20	780	0.30	0.33
HS-SFM52T-101M	100.0	±20	1250	0.23	0.24

(1) Inductance is measured with a LCR meter 4284A(Agilent) or equivalent. Test frequency at 100KHZ

(2) DC resistance is measured with a Digital Multimeter TR6871 (Advantest) or equivalent.

(3) The Maximum allowable DC current is a DC current which causes initial inductance to decrease by 30%, or coil temperature to rise by 40℃,

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HS-SFM53T

Part Number	Inductance (μ H)	Tolerance (%)	DC Resistance (m Ω) typ	Isat (A)	Temperature Rise current (A)max
HS-SFM53T-1R1M	1.1	± 20	16	3.87	3.25
HS-SFM53T-2R0M	2	± 20	22	2.92	2.64
HS-SFM53T-3R3M	3.3	± 20	29	2.36	2.26
HS-SFM53T-4R7M	4.7	± 20	38	1.87	2.01
HS-SFM53T-6R8M	6.8	± 20	57	1.51	1.65
HS-SFM53T-100M	10	± 20	75	1.33	1.41
HS-SFM53T-150M	15	± 20	118	1.05	1.10
HS-SFM53T-220M	22	± 20	173	0.86	0.81
HS-SFM53T-330M	33	± 20	214	0.72	0.75
HS-SFM53T-470M	47	± 20	293	0.62	0.64
HS-SFM53T-680M	68	± 20	437	0.51	0.52
HS-SFM53T-101M	100	± 20	667	0.43	0.44

(1) Inductance is measured with a LCR meter 4284A(Agilent) or

(2) DC resistance is measured with a Digital Multimeter TR6871 (Advantest) or equivalent.

(3) The Maximum allowable DC current is a DC current which causes initial inductance to decrease by 30%, or coil temperature to rise by 40°C, the ambient reference temperature 20°C.

SHENZHEN HIGHSTARTECH ELECTRONICS CO., LTD

HSSFMS SERIES

HS-SFM62FT

Part Number	Inductance (μ H)	Tolerance (%)	DC Resistance (m Ω) typ	Isat(A)	Temperature Rise current (A)max
HS-SFM62FT-1R0M	1.0	± 20	17	3.50	4.35
HS-SFM62FT-1R5M	1.5	± 20	21	2.94	3.74
HS-SFM62FT-2R0M	2.0	± 20	29	2.47	2.91
HS-SFM62FT-3R3M	3.3	± 20	47	1.99	2.47
HS-SFM62FT-4R7M	4.7	± 20	66	1.59	1.93
HS-SFM62FT-6R2M	6.2	± 20	74	1.49	1.81
HS-SFM62FT-8R2M	8.2	± 20	102	1.25	1.54
HS-SFM62FT-100M	10	± 20	118	1.22	1.36
HS-SFM62FT-120M	12	± 20	154	0.99	1.38
HS-SFM62FT-150M	15	± 20	179	0.94	1.03
HS-SFM62FT-180M	18	± 20	207	0.83	1.12
HS-SFM62FT-220M	22	± 20	253	0.80	0.92
HS-SFM62FT-270M	27	± 20	331	0.65	0.81
HS-SFM62FT-300M	33	± 20	368	0.63	0.76
HS-SFM62FT-390M	39	± 20	473	0.55	0.7
HS-SFM62FT-470M	47	± 20	542	0.50	0.65

(1) Inductance is measured with a LCR meter 4284A(Agilent) or equivalent. Test frequency at 100KHz.

(2) DC resistance is measured with a Digital Multimeter TR6871 (Advantest) or equivalent.

(3) The Maximum allowable DC current is a DC current which causes initial inductance to decrease by 30%,or coil temperature to rise by 40 $^{\circ}$ C, the ambient reference temperature 20 $^{\circ}$ C.

SHENZHEN HIGHSTARTECH ELECTRONICS CO., LTD

HSSFMS SERIES

HS-SFM62GT

Part Number	Inductance (μ H)	Tolerance (%)	DC Resistance (m Ω)typ	Isat(A)	Temperature Rise current (A)max
HS-SFM62GT-1R0M	1.0	± 20	11	3.48	3.84
HS-SFM62GT-1R5M	1.5	± 20	17	2.35	3.4
HS-SFM62GT-2R0M	2.0	± 20	25	2.44	3.1
HS-SFM62GT-3R3M	3.3	± 20	46.6	1.89	2.55
HS-SFM62GT-4R3M	4.3	± 20	54	1.65	2.23
HS-SFM62GT-6R2M	6.2	± 20	68	1.37	1.85
HS-SFM62GT-100M	10	± 20	98	1.07	1.48
HS-SFM62GT-120M	12	± 20	114	0.97	1.35
HS-SFM62GT-150M	15	± 20	120	0.87	1.24
HS-SFM62GT-180M	18	± 20	132	0.79	1.11
HS-SFM62GT-220M	22	± 20	156	0.71	1
HS-SFM62GT-270M	27	± 20	204	0.64	0.86
HS-SFM62GT-330M	33	± 20	234	0.58	0.8
HS-SFM62GT-390M	39	± 20	294	0.53	0.7
HS-SFM62GT-470M	47	± 20	348	0.48	0.63
HS-SFM62GT-560M	56	± 20	414	0.44	0.58
HS-SFM62GT-680M	68	± 20	480	0.40	0.53
HS-SFM62GT-820M	82	± 20	558	0.36	0.49
HS-SFM62GT-101M	100	± 20	780	0.33	0.43

(1) Inductance is measured with a LCR meter 4284A(Agilent) or equivalent. Test frequency at 100KHz.

(2) DC resistance is measured with a Digital Multimeter TR6871

(3) The Maximum allowable DC current is a DC current which causes initial

inductance to decrease by 30%, or coil temperature to rise by 40 $^{\circ}$ C,

SHENZHEN HIGHSTARTECH ELECTRONICS CO., LTD

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HS-SFM63FT

Part Number	Inductance (μ H)	Tolerance (%)	DC Resistance ($m\Omega$)typ	Isat(A)	Temperature Rise current (A)max
HS-SFM63FT-1R0M	1.0	± 20	11(14)	3.59	4.03
HS-SFM63FT-1R5M	1.5	± 20	13(16)	2.93	3.63
HS-SFM63FT-2R2M	2.2	± 20	16(20)	2.42	3.3
HS-SFM63FT-3R6M	3.6	± 20	21(26)	1.89	2.83
HS-SFM63FT-4R7M	4.7	± 20	27(33)	1.66	2.45
HS-SFM63FT-6R2M	6.2	± 20	32(39)	1.45	2.2
HS-SFM63FT-100M	10	± 20	49(59)	1.14	1.77
HS-SFM63FT-120M	12	± 20	52(63)	1.04	1.70
HS-SFM63FT-150M	15	± 20	62(75)	0.93	1.55
HS-SFM63FT-180M	18	± 20	74(89)	0.85	1.41
HS-SFM63FT-220M	22	± 20	95(115)	0.77	1.23
HS-SFM63FT-270M	27	± 20	120(144)	0.70	1.08
HS-SFM63FT-330M	33	± 20	140(168)	0.63	0.99
HS-SFM63FT-390M	39	± 20	150(180)	0.58	0.95
HS-SFM63FT-470M	47	± 20	185(225)	0.53	0.84
HS-SFM63FT-560M	56	± 20	220(264)	0.48	0.76
HS-SFM63FT-680M	68	± 20	270(324)	0.44	0.69
HS-SFM63FT-820M	82	± 20	330(390)	0.40	0.61
HS-SFM63FT-101M	100	± 20	415(498)	0.36	0.54
HS-SFM63FT-151M	150	± 20	615(738)	0.31	0.42

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(1) Inductance is measured with a LCR meter 4284A(Agilent) or equivalent. Test frequency at 100KHz.

(2) DC resistance is measured with a Digital Multimeter TR6871

(Advantest) or equivalent.

(3) The Maximum allowable DC current is a DC current which causes initial

inductance to decrease by 30%,or coil temperature to rise by 40C,

the ambient reference temperature 20C.

SHENZHEN HIGHSTARTECH ELECTRONICS CO., LTD

HSSFM SERIES

HS-SFM63GT

Part Number	Inductance (μH)	Tolerance (%)	DC Resistance (mΩ)typ	Isat(A)	Temperature Rise current (A)max
HS-SFM63GT-2R0M	2.0	±20	16.0	3.00	3.31
HS-SFM63GT-2R7M	2.7	±20	18.3	2.69	3.12
HS-SFM63GT-3R3M	3.3	±20	21.4	2.57	2.81
HS-SFM63GT-4R7M	4.7	±20	26.3	2.08	2.51
HS-SFM63GT-6R2M	6.2	±20	29.1	1.84	2.41
HS-SFM63GT-8R2M	8.2	±20	36.2	1.54	2.11
HS-SFM63GT-100M	10	±20	41.2	1.49	1.97
HS-SFM63GT-120M	12	±20	51.7	1.28	1.73
HS-SFM63GT-150M	15	±20	64.1	1.10	1.54
HS-SFM63GT-180M	18	±20	67.9	1.05	1.52
HS-SFM63GT-220M	22	±20	88.4	0.97	1.29
HS-SFM63GT-270M	27	±20	117.0	0.82	1.11
HS-SFM63GT-330M	33	±20	135.0	0.76	1.02
HS-SFM63GT-390M	39	±20	159.0	0.70	0.96
HS-SFM63GT-470M	47	±20	174.0	0.68	0.89
HS-SFM63GT-560M	56	±20	214.0	0.60	0.8
HS-SFM63GT-680M	68	±20	266.0	0.56	0.71
HS-SFM63GT-820M	82	±20	349.0	0.47	0.61
HS-SFM63GT-101M	100	±20	397.0	0.45	0.57
HS-SFM63GT-151M	150	±20	553.0	0.37	0.48

(1) Inductance is measured with a LCR meter 4284A(Agilent) or equivalent. Test frequency at 100KHz.

(2) DC resistance is measured with a Digital Multimeter TR6871

(3) The Maximum allowable DC current is a DC current which causes initial inductance to decrease by 30%,or coil temperature to rise by 40℃, the ambient reference temperature 20

SHENZHEN HIGHSTARTECH ELECTRONICS CO., LTD

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HS-SFM75T SERIES

Part Number	Inductance (μH)	Tolerance (%)	DC Resistance (mΩ)typ	Temperature Rise Current Δt=40°C(A)max	Inductance Decrease Current ΔL/L=10% (A)max
HS-SFM75T-1R0N	1.0	±30	12	6.4	7.1
HS-SFM75T-1R5N	1.5	±30	14	5.9	5.9
HS-SFM75T-2R2N	2.2	±30	16	5.5	5
HS-SFM75T-2R7N	2.7	±30	18	5.1	4.4
HS-SFM75T-3R6N	3.6	±30	23	4.4	3.8
HS-SFM75T-4R7N	4.7	±30	26	4.1	3.5
HS-SFM75T-6R8N	6.8	±30	36	3.4	2.9
HS-SFM75T-100M	10	±20	53	2.7	2.30
HS-SFM75T-150M	15	±20	71	2.2	1.9
HS-SFM75T-220M	22	±20	120	1.8	1.6
HS-SFM75T-330M	33	±20	170	1.5	1.3
HS-SFM75T-470M	47	±20	200	1.3	1.1
HS-SFM75T-680M	68	±20	280	1.0	0.9
HS-SFM75T-101M	100	±20	460	0.77	0.72
HS-SFM75T-151M	150	±20	710	0.6	0.59
HS-SFM75T-221M	220	±20	1100	0.47	0.48
HS-SFM75T-331M	330	±20	1400	0.4	0.4
HS-SFM75T-471M	470	±20	1700	0.37	0.33

(1) Inductance is measured with a LCR meter HP4284A or equivalent.

(2) DC resistance is measured with a Digital Multimeter TR6871

(3) Maximum allowable DC current is that which causes a 10%

inductance reduction from the initial value, or coil temperature to rise by 40°, whichever is smaller.

Reference ambient temperature 20

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HS-SFM86T

Part Number	Inductance (μH)	Tolerance (%)	DC Resistance (mΩ)typ	Temperature Rise Current Δt=40°C (A)max	Inductance Decrease Current ΔL/L=10% (A)max
HS-SFM86T-1R3N	1.3	±30	14	6.1	9.3
HS-SFM86T-2R0N	2.0	±30	15	6.0	6.8
HS-SFM86T-2R7N	2.7	±30	17	5.5	5.9
HS-SFM86T-3R3N	3.3	±30	21	4.8	5.2
HS-SFM86T-4R3N	4.3	±30	22	4.8	4.8
HS-SFM86T-5R8N	5.6	±30	26	4.3	4.1
HS-SFM86T-6R8N	6.8	±30	28	4.1	3.8
HS-SFM86T-8R2N	8.2	±30	30	3.9	3.40
HS-SFM86T-100M	10	±20	36	3.6	2.9
HS-SFM86T-150M	15	±20	41	3.3	2.8
HS-SFM86T-220M	22	±20	74	2.3	2
HS-SFM86T-330M	33	±20	120	1.9	1.6
HS-SFM86T-470M	47	±20	150	1.7	1.4
HS-SFM86T-680M	68	±20	210	1.4	1.1
HS-SFM86T-101M	100	±20	310	1.1	0.98
HS-SFM86T-151M	150	±20	400	0.94	0.75
HS-SFM86T-221M	220	±20	560	0.8	0.65

(1) Inductance is measured with a LCR meter 4284A*or equivalent.

(2) DC resistance is measured with a Digital Multimeter TR6871

inductance reduction from the initial value, or coil temperature to rise by 40,

whichever is smaller (Reference ambient temperature 20)

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HS-SFM104T

Part Number	Inductance (μ H)	Tolertance (%)	DCR max.(m Ω)		Rated DC Current max(A)
			typ(m Ω)		
HS-SFM104T-1R1N	1.1	± 30	11(9)	11.7(15.8)	6.0 (7.6)
HS-SFM104T-1R8N	1.8	± 30	14(11)	8.7(11.7)	5.4 (6.8)
HS-SFM104T-2R7N	2.7	± 30	16(13)	7.3(9.7)	4.9 (6.2)
HS-SFM104T-3R9N	3.9	± 30	18(15)	5.8(7.7)	4.6 (5.9)
HS-SFM104T-5R1N	5.1	± 30	26(21)	4.9(6.6)	3.8 (4.7)
HS-SFM104T-6R8N	6.8	± 30	35(29)	4.5(6.0)	3.1 (3.9)
HS-SFM104T-8R2N	8.2	± 30	40(33)	4.1(5.6)	2.9 (3.7)
HS-SFM104T-100M	10	± 20	44(36)	3.6(4.9)	2.7 (3.4)
HS-SFM104T-120M	12	± 20	51(42)	3.3(4.5)	2.5 (3.2)
HS-SFM104T-150M	15	± 20	62(51)	3.1(4.2)	2.3 (2.9)
HS-SFM104T-180M	18	± 20	79(66)	2.7(3.6)	2.0 (2.5)
HS-SFM104T-220M	22	± 20	87(72)	2.4(3.2)	1.9 (2.4)
HS-SFM104T-270M	27	± 20	100(82)	2.2(3.0)	1.8 (2.3)
HS-SFM104T-330M	33	± 20	125(104)	2.0(2.7)	1.6 (2.0)
HS-SFM104T-390M	39	± 20	150(124)	1.8(2.5)	1.4 (1.8)
HS-SFM104T-470M	47	± 20	175(143)	1.7(2.3)	1.3 (1.6)
HS-SFM104T-560M	56	± 20	195(160)	1.5(2.0)	1.2 (1.5)
HS-SFM104T-680M	68	± 20	240(200)	1.3(1.8)	1.1 (1.3)
HS-SFM104T-820M	82	± 20	295(245)	1.2(1.7)	1.0 (1.2)
HS-SFM104T-101M	100	± 20	380(315)	1.1(1.5)	0.90 (1.1)
HS-SFM104T-121M	120	± 20	460(380)	0.97(1.3)	0.80 (1.0)

(1) Inductance is measured with a LCR meter 4284A*or equivalent.

(2) DC resistance is measured with a Digital Multimeter TR6871

(3)Maximum allowable DC current is that which causes a 10%

inductance reduction from the initial value, or coil temperature to rise by 40,

whichever is smaller (Reference ambient temperature 20

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HS-SFM106T

Part Numbe	Inductance (μ H)	Tolerance (%)	Rated DC Current		DC Resistance (m Ω) max
			ΔL/L=10% (A)max	ΔT=40°C (A)max	
HS-SFM106T-1R2N	1.2	±30	12.0(16.5)	7.2(8.5)	11 (9.0)
HS-SFM106T-1R8N	1.8	±30	9.8(13.0)	6.7(7.95)	14 (11)
HS-SFM106T-2R7N	2.7	±30	8.1(10.5)	6.1(7.25)	15 (12)
HS-SFM106T-3R9N	3.9	±30	7.1(9.4)	5.6(6.65)	17 (14)
HS-SFM106T-4R7N	4.7	±30	6.1(8.1)	5.4(6.35)	18 (15)
HS-SFM106T-6R8N	6.8	±30	5.2(7.0)	5.0(5.95)	21 (17)
HS-SFM106T-8R2N	8.2	±30	4.8(6.5)	4.6(5.5)	24 (20)
HS-SFM106T-100M	10	±20	4.4(5.9)	4.3(5.05)	28 (23)
HS-SFM106T-120M	12	±20	3.9(5.2)	3.7(4.4)	35 (29)
HS-SFM106T-160M	16	±20	3.3(4.4)	2.7(3.2)	60 (50)
HS-SFM106T-180M	18	±20	2.8(3.8)	2.6(3.1)	60 (50)
HS-SFM106T-220M	22	±20	2.7(3.6)	2.5(2.95)	65 (54)
HS-SFM106T-270M	27	±20	2.4(3.2)	2.3(2.75)	74 (61)
HS-SFM106T-330M	33	±20	2.1(2.8)	2.2(2.6)	83 (69)
HS-SFM106T-390M	39	±20	1.9(2.6)	2.0(2.45)	93 (77)
HS-SFM106T-470M	47	±20	1.8(2.4)	1.8(2.15)	120 (97)
HS-SFM106T-560M	56	±20	1.6(2.2)	1.6(1.95)	145 (120)
HS-SFM106T-680M	68	±20	1.4(1.9)	1.4(1.7)	190 (155)
HS-SFM106T-820M	82	±20	1.3(1.8)	1.3(1.55)	210 (175)
HS-SFM106T-101M	100	±20	1.2(1.6)	1.2(1.4)	255(210)
HS-SFM106T-121M	120	±20	1.1(1.5)	1.1(1.35)	285(235)
HS-SFM106T-151M	150	±20	1.0(1.3)	0.97(1.1)	385(320)
HS-SFM106T-181M	180	±20	0.94(1.2)	0.92(1.05)	430(355)

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HS-SFM106T-2211M	220	± 20	0.84(1.1)	0.76(0.85)	610(505)
HS-SFM106T-271M	270	± 20	0.75(1.0)	0.71(0.8)	690(575)
HS-SFM106T-331M	330	± 20	0.69(0.92)	0.68(0.8)	760(630)

(1) Inductance is measured with a LCR meter 4284A*or equivalent.

(2) DC resistance is measured with a Digital Multimeter TR6871

(Advantest) or equivalent.

(3)Maximum allowable DC current is that which causes a 10%

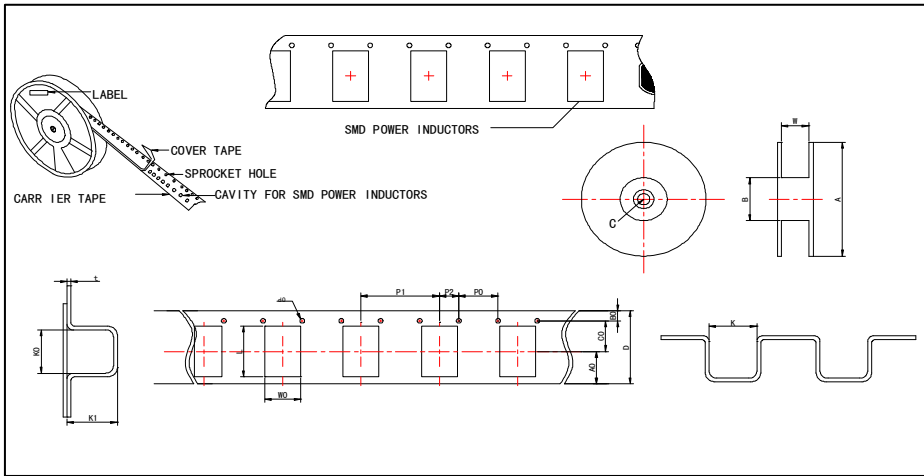
inductance reduction from the initial value, or coil temperature to rise by 40°C ,

whichever is smaller (Reference ambient temperature 20°C)

*Agilent Technologies

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● Reel Dimensions & Packing Unit

UNIT:mm

Part Number	Dimensions of Reel				Packaging Unit
	A	B	C	W	
HS-SFM51T/52T/53T	330	100.0±2.00	13.50±0.50	12.0±0.50	2000pcs/r
HS-SFM62FT/62GT	330	100.0±2.00	13.50±0.50	16.0±0.50	1500pcs/r
HS-SFM63FT/63GT	330	100.0±2.00	13.50±0.50	16.0±0.50	1500pcs/r
HS-SFM75T	330	100.0±2.00	13.50±0.50	16.0±0.50	1000pcs/r
HS-SFM86T	330	100.0±2.00	13.50±0.50	16.0±0.50	500pcs/r
HS-SFM104T/106T	330	100.0±2.00	13.5±0.50	24.0±0.50	500pcs/r

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●Carrier Tape Dimensions

UNIT:mm

Sym	HS-SFM 51T/52T/53 T	HS-SFM 62FT/62GT	HS-SFM 63FT/63GT	HS- SFM75T	HS- SFM86T	HS-SFM 104T/106T
A0	4.75±0.10	6.75±0.10	6.75±0.10	6.75±0.10	6.75±0.10	10.75±0.10
B0	1.75±0.10	1.75±0.10	1.75±0.10	1.75±0.10	1.75±0.10	1.75±0.10
C0	5.5±0.10	7.5±0.10	7.5±0.10	7.5±0.10	7.5±0.10	11.5±0.10
D	12.00±0.30	16.00±0.30	16.00±0.30	16.00±0.30	16.00±0.30	24.00±0.30
K	5.25±0.20	6.3±0.20	6.3±0.20	7.8±0.20	8.4±0.20	10.6±0.20
K0	5.25±0.20	6.3±0.20	6.3±0.20	7.8±0.20	8.4±0.20	10.6±0.20
K1	2.1/2.3/3.3±0.1	2.1/2.6±0.10	3.1/3.6±0.10	5.0±0.10	7.0±0.10	4.9/6.9±0.10
L	5.25±0.20	6.3±0.20	6.3±0.20	7.8±0.20	8.4±0.20	10.6±0.20
W0	5.25±0.20	6.3±0.20	6.3±0.20	7.8±0.20	8.4±0.20	10.6±0.20
P0	4.00±0.10	4.00±0.10	4.00±0.10	4.00±0.10	4.00±0.10	4.00±0.10
P1	8±0.10	8±0.10	8±0.10	12±0.10	12±0.10	16.00±0.10