Wire Wound SMD Power Inductors SPH Series

Operating Temp. : -40~+125 (Including self-heating)

FEATURES

- Magnetic-resin shielded construction reduces buzz noise to ultra-low levels
- Metallization on ferrite core results in excellent shock resistance and damage-free durability
- Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI)
- Takes up less PCB real estate and save more power
- 30% lower DCR than SWPA series and larger current

APPLICATIONS

- Smart phone, set top box, VR, AR
- Notebooks, desktop computers, servers
- Portable gaming devices, personal navigation systems, personal multimedia devices

PRODUCT IDENTIFICATION

SPH	252012	H	2R2	M	T	□□□
①	②	③	④	⑤	⑥	⑦

① Type	
SPH	Wire Wound SMD Power Inductor

② External Dimensions (L×W×H) [mm]	
201610	2.0×1.6×1.0
252010	2.5×2.0×1.0
252012	2.5×2.0×1.2
3010	3.0×3.0×1.0
3012	3.0×3.0×1.2
3015	3.0×3.0×1.5
4012	4.0×4.0×1.2
4018	4.0×4.0×1.8
4020	4.0×4.0×2.0
4030	4.0×4.0×3.0

③ Material Code	
U	U Type Material
H	H Type Material

④ Nominal Inductance	
Example	Nominal Value
R47	0.47μH
2R2	2.2μH

⑤ Inductance Tolerance	
M	±20%
N	±30%

⑥ Packing	
T	Tape & Reel

⑦ Design Code	
□□□	Design Code
* Standard product is blank	

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SHAPE AND DIMENSIONS

Fig.1

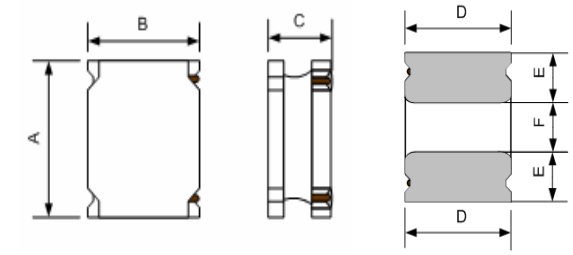


Fig.2

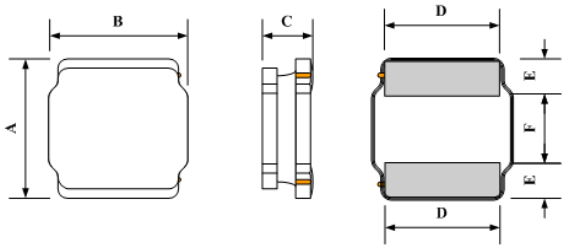


Fig.3

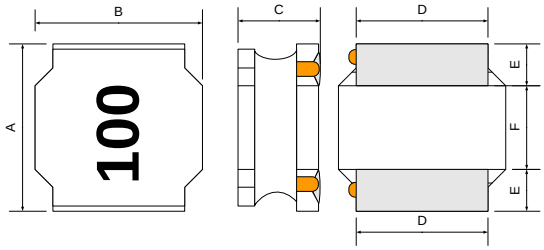
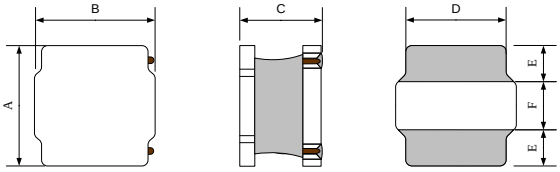
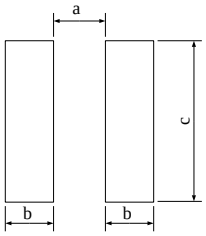


Fig.4



Recommended Land Pattern



Unit: mm

Series	Shape	A	B	C	D	E	F	a Typ.	b Typ.	c Typ.
SPH201610H	Fig.1	2.00.2	1.60.2	1.0 Max.	1.20.2	0.600.2	0.800.2	0.70	0.70	1.7
SPH201610U	Fig.4	2.00.2	1.60.2	1.0 Max.	1.60.2	0.600.2	0.800.2	0.70	0.70	1.7
SPH252010	Fig.1	2.50.2	2.00.2	1.0 Max.	2.00.2	0.800.2	0.800.2	0.80	0.85	2.0
SPH252012	Fig.1	2.50.2	2.00.2	1.2 Max.	2.00.2	0.800.2	0.800.2	0.80	0.85	2.0
SPH3010	Fig.2	3.00.2	3.00.2	1.0 Max.	2.50.2	0.750.2	1.50.2	1.5	0.8	2.7
SPH3012	Fig.2	3.00.2	3.00.2	1.2 Max.	2.50.2	0.750.2	1.50.2	1.5	0.8	2.7
SPH3015	Fig.2	3.00.2	3.00.2	1.5 Max.	2.50.2	0.750.2	1.50.2	1.5	0.8	2.7
SPH4012	Fig.3	4.00.2	4.00.2	1.2 Max.	3.30.2	0.950.2	2.10.2	1.9	1.1	3.7
SPH4018	Fig.3	4.00.2	4.00.2	1.8 Max.	3.30.2	0.950.2	2.10.2	1.9	1.1	3.7
SPH4020	Fig.3	4.00.2	4.00.2	2.0 Max.	3.30.2	0.950.2	2.10.2	1.9	1.1	3.7
SPH4030	Fig.3	4.00.2	4.00.2	3.0 Max.	3.30.2	0.950.2	2.10.2	1.9	1.1	3.7

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SPECIFICATIONS

SPH201610H Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@1MHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	H			A		A	
Symbol	L	DCR		Isat		Irms	
SPH201610HR16MT	0.1620%	0.031	0.026	4.30	4.80	3.20	3.50
SPH201610HR24MT	0.2420%	0.040	0.033	3.70	4.10	2.90	3.20
SPH201610HR33MT	0.3320%	0.040	0.033	2.50	3.10	2.90	3.20
SPH201610HR47MT	0.4720%	0.059	0.049	2.30	2.85	2.35	2.60
SPH201610HR68MT	0.6820%	0.076	0.063	1.95	2.45	2.05	2.25
SPH201610H1R0MT	1.020%	0.114	0.095	1.65	1.85	1.45	1.60
SPH201610H1R5MT	1.520%	0.174	0.145	1.35	1.65	1.25	1.40
SPH201610H2R2MT	2.220%	0.264	0.220	1.20	1.45	1.10	1.20
SPH201610H3R3MT	3.320%	0.335	0.279	0.90	1.05	0.88	0.98
SPH201610H4R7MT	4.720%	0.479	0.399	0.70	0.85	0.74	0.82
SPH201610H6R8MT	6.820%	0.816	0.680	0.60	0.70	0.52	0.58
SPH201610H100MT	1020%	1.020	0.850	0.50	0.55	0.45	0.50

SPH201610U Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@1MHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	μH	Ω		A		A	
Symbol	L	DCR		Isat		Irms	
SPH201610U50NMT	0.05±20%	0.022	0.018	7.50	8.00	3.65	4.25
SPH201610UR10MT	0.10±20%	0.022	0.018	4.80	5.70	3.65	4.25
SPH201610UR16MT	0.16±20%	0.031	0.026	4.70	5.40	3.20	3.50
SPH201610UR24MT	0.24±20%	0.040	0.033	4.50	5.00	2.90	3.20
SPH201610UR33MT	0.33±20%	0.040	0.033	3.00	3.60	2.90	3.20
SPH201610UR47MT	0.47±20%	0.052	0.043	2.90	3.40	2.35	2.60
SPH201610UR47MTY01	0.47±20%	0.040	0.033	2.00	2.40	2.90	3.20
SPH201610UR68MT	0.68±20%	0.072	0.060	2.50	2.70	2.05	2.25
SPH201610U1R0MT	1.0±20%	0.072	0.060	1.30	1.50	2.05	2.25
SPH201610U2R2MT	2.2±20%	0.171	0.143	1.10	1.20	1.23	1.40

SPH252010H Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@1MHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	H			A		A	
Symbol	L	DCR		Isat		Irms	
SPH252010HR24MT	0.2420%	0.034	0.028	3.60	4.40	2.75	3.00
SPH252010HR33MT	0.3320%	0.043	0.036	3.80	4.60	2.40	2.65
SPH252010HR47MT	0.4720%	0.044	0.037	2.40	2.80	2.40	2.65
SPH252010HR68MT	0.6820%	0.061	0.051	2.75	3.10	2.10	2.35
SPH252010HR68MTY01	0.6820%	0.061	0.051	2.75	3.10	2.10	2.35
SPH252010HR68MTY02	0.6820%	0.065	0.055	3.20	3.50	2.10	2.30
SPH252010H1R0MT	1.020%	0.080	0.067	2.05	2.45	1.80	2.00
SPH252010H1R5MT	1.520%	0.108	0.090	1.70	2.05	1.55	1.70
SPH252010H2R2MT	2.220%	0.137	0.114	1.55	1.80	1.40	1.55
SPH252010H3R3MT	3.320%	0.228	0.170	1.10	1.40	1.10	1.20
SPH252010H4R7MT	4.720%	0.323	0.269	1.00	1.15	0.91	1.00
SPH252010H6R8MT	6.820%	0.451	0.376	0.82	0.95	0.76	0.84
SPH252010H100MT	1020%	0.584	0.487	0.65	0.75	0.67	0.74
SPH252010H150MT	1520%	0.954	0.795	0.55	0.65	0.50	0.55

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SPECIFICATIONS

SPH252010H Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@1MHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	H			A		A	
Symbol	L	DCR		Isat		Irms	
SPH252010H220MT	2220%	1.548	1.290	0.45	0.55	0.40	0.45
SPH252010H330MT	3320%	1.548	1.290	0.25	0.30	0.40	0.45

SPH252012H Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@1MHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	H			A		A	
Symbol	L	DCR		Isat		Irms	
SPH252012HR16MT	0.1620%	0.022	0.018	6.50	7.20	4.05	4.50
SPH252012HR24MT	0.2420%	0.022	0.018	4.00	4.75	4.05	4.50
SPH252012HR33MT	0.3320%	0.029	0.024	4.00	4.70	3.35	3.70
SPH252012HR47MT	0.4720%	0.036	0.030	3.70	4.10	3.00	3.30
SPH252012HR47MTY01	0.4720%	0.038	0.032	4.90	5.20	2.90	3.20
SPH252012HR68MT	0.6820%	0.061	0.051	3.00	3.30	2.10	2.30
SPH252012HR68MTY01	0.6820%	0.042	0.035	3.20	3.50	2.50	2.70
SPH252012HR68MTY02	0.6820%	0.060	0.051	3.80	4.20	2.10	2.30
SPH252012H1R0MT	1.020%	0.044	0.037	1.70	1.90	2.20	2.40
SPH252012H1R2MT	1.220%	0.078	0.065	2.20	2.50	1.95	2.10
SPH252012H1R5MT	1.520%	0.078	0.065	2.00	2.35	1.95	2.10
SPH252012H2R2MT	2.220%	0.096	0.080	1.80	1.95	1.80	1.95
SPH252012H3R3MT	3.320%	0.144	0.120	1.15	1.25	1.40	1.50
SPH252012H4R7MT	4.720%	0.210	0.175	1.10	1.20	1.12	1.25
SPH252012H6R8MT	6.820%	0.360	0.300	0.80	1.00	0.95	1.05
SPH252012H100MT	1020%	0.522	0.435	0.70	0.85	0.79	0.87
SPH252012H150MT	1520%	1.000	0.830	0.65	0.75	0.57	0.63
SPH252012H180MT	1820%	1.000	0.830	0.50	0.65	0.57	0.63
SPH252012H220MT	2220%	1.090	0.910	0.45	0.55	0.54	0.60
SPH252012H330MT	3320%	1.840	1.530	0.35	0.40	0.42	0.46
SPH252012H470MT	4720%	2.220	1.850	0.25	0.30	0.30	0.35
SPH252012H680MT	6820%	3.000	2.500	0.30	0.35	0.28	0.32
SPH252012H101MT	10020%	5.400	4.500	0.22	0.25	0.25	0.24

SPH3010H Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@1MHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	H			A		A	
Symbol	L	DCR		Isat		Irms	
SPH3010H4R7MT	4.720%	0.18	0.15	0.85	0.95	1.10	1.25
SPH3010H100MT	1020%	0.42	0.35	0.60	0.70	0.62	0.80
SPH3010H220MT	2220%	0.92	0.77	0.40	0.50	0.48	0.56

SPH3012H Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@1MHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	H			A		A	
Symbol	L	DCR		Isat		Irms	
SPH3012H1R0MT	1.020%	0.040	0.032	2.20	2.50	2.30	2.50

SPECIFICATIONS

SPH3012H Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@1MHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	H			A		A	
Symbol	L	DCR		Isat		Irms	
SPH3012H1R0MTY02	1.020%	0.056	0.047	2.80	3.20	1.90	2.00
SPH3012H2R2MT	2.220%	0.090	0.075	1.50	1.80	1.40	1.60
SPH3012H3R3MT	3.320%	0.134	0.112	1.23	1.55	1.40	1.60
SPH3012H100MT	1020%	0.372	0.310	0.75	0.90	0.75	0.80
SPH3012H100MTY01	1020%	0.495	0.413	1.00	1.10	0.90	1.00
SPH3012H100MTY02	1020%	0.324	0.270	0.73	0.85	0.78	0.85
SPH3012H220MT	2220%	0.840	0.700	0.50	0.60	0.50	0.55
SPH3012H220MTY01	2220%	0.756	0.630	0.50	0.60	0.50	0.60

SPH3015H Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@1MHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	H			A		A	
Symbol	L	DCR		Isat		Irms	
SPH3015HR22MT	0.2220%	0.022	0.018	6.00	6.80	3.00	3.50
SPH3015HR24MT	0.2420%	0.022	0.018	5.50	5.50	3.00	3.50
SPH3015HR47MT	0.4720%	0.022	0.018	2.40	2.80	3.00	3.50
SPH3015HR22MT	0.2220%	0.022	0.018	6.00	6.80	3.00	3.50
SPH3015HR24MT	0.2420%	0.022	0.018	5.50	5.50	3.00	3.50
SPH3015HR47MT	0.4720%	0.022	0.018	2.40	2.80	3.00	3.50
SPH3015HR55MT	0.5520%	0.019	0.016	2.40	2.70	3.05	3.55
SPH3015H1R0MT	1.020%	0.040	0.033	2.70	3.00	2.20	2.50
SPH3015H1R5MT	1.520%	0.048	0.040	2.00	2.30	2.00	2.30
SPH3015H2R2MT	2.220%	0.060	0.050	1.50	1.70	1.80	2.05
SPH3015H3R3MT	3.320%	0.084	0.070	1.30	1.50	1.50	1.70
SPH3015H3R9MT	3.920%	0.115	0.096	1.30	1.60	1.30	1.50
SPH3015H4R7MT	4.720%	0.115	0.096	1.10	1.20	1.30	1.50
SPH3015H6R8MT	6.820%	0.144	0.120	0.80	0.90	1.16	1.35
SPH3015H100MT	1020%	0.276	0.230	0.75	0.90	0.84	0.97
SPH3015H150MT	1520%	0.360	0.300	0.60	0.70	0.73	0.84
SPH3015H220MT	2220%	0.540	0.450	0.52	0.60	0.60	0.70
SPH3015H260MT	2620%	0.768	0.640	0.40	0.50	0.45	0.55
SPH3015H330MT	3320%	1.090	0.910	0.50	0.55	0.50	0.55
SPH3015H470MT	4720%	1.250	1.040	0.35	0.42	0.45	0.50

SPH4012H Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@0.1MHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	H			A		A	
Symbol	L	DCR		Isat		Irms	
SPH4012HR33NT	0.3330%	0.031	0.026	5.50	6.30	2.90	3.35
SPH4012HR47NT	0.4730%	0.032	0.027	3.50	4.20	2.90	3.20
SPH4012HR82NT	0.8230%	0.042	0.035	3.00	3.50	2.50	2.50
SPH4012H1R0NT	1.030%	0.050	0.042	2.80	3.30	2.20	2.90
SPH4012H1R5NT	1.530%	0.050	0.042	2.10	2.20	2.20	2.50
SPH4012H1R8NT	1.830%	0.066	0.055	2.10	2.40	2.00	2.30
SPH4012H2R2MT	2.220%	0.066	0.055	1.70	1.80	2.00	2.30
SPH4012H2R7MT	2.720%	0.084	0.070	1.90	2.20	1.70	2.00

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SPECIFICATIONS

SPH4012H Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@0.1MHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	H			A		A	
Symbol	L	DCR		Isat		Irms	
SPH4012H3R3MT	3.320%	0.084	0.070	1.40	1.70	1.70	2.00
SPH4012H3R6MT	3.620%	0.090	0.075	1.20	1.60	1.70	2.00
SPH4012H4R3MT	4.320%	0.108	0.090	1.20	1.50	1.50	1.80
SPH4012H4R7MT	4.720%	0.108	0.090	1.20	1.30	1.50	1.80
SPH4012H5R1MT	5.120%	0.132	0.110	1.20	1.40	1.40	1.60
SPH4012H5R6MT	5.620%	0.132	0.110	1.10	1.40	1.40	1.60
SPH4012H6R8MT	6.820%	0.150	0.125	0.90	1.10	1.30	1.60
SPH4012H100MT	1020%	0.204	0.170	0.80	0.90	1.10	1.30
SPH4012H100MTY01	1020%	0.240	0.200	0.90	1.10	1.00	1.10
SPH4012H120MT	1220%	0.312	0.260	0.85	1.00	0.90	1.00
SPH4012H150MT	1520%	0.312	0.260	0.65	0.80	0.90	1.00
SPH4012H180MT	1820%	0.432	0.360	0.65	0.80	0.78	0.90
SPH4012H220MT	2220%	0.460	0.380	0.50	0.65	0.78	0.90
SPH4012H270MT	2720%	0.672	0.560	0.50	0.60	0.63	0.73
SPH4012H330MT	3320%	0.756	0.630	0.45	0.55	0.57	0.68
SPH4012H360MT	3620%	0.756	0.630	0.40	0.50	0.57	0.68
SPH4012H390MT	3920%	1.188	0.990	0.55	0.62	0.47	0.54
SPH4012H470MT	4720%	1.188	0.990	0.40	0.50	0.47	0.54
SPH4012H560MT	5620%	1.320	1.100	0.35	0.45	0.45	0.52
SPH4012H680MT	6820%	1.800	1.500	0.38	0.45	0.38	0.44
SPH4012H820MT	8220%	2.040	1.700	0.30	0.38	0.36	0.42
SPH4012H101MT	10020%	2.040	1.700	0.25	0.31	0.36	0.42

SPH4018H Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@0.1MHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	H			A		A	
Symbol	L	DCR		Isat		Irms	
SPH4018HR33NT	0.3330%	0.016	0.012	6.50	8.00	4.20	4.70
SPH4018HR47NT	0.4730%	0.020	0.017	6.50	7.20	3.50	4.00
SPH4018H1R0NT	1.030%	0.032	0.027	4.00	4.80	3.20	3.70
SPH4018H1R5NT	1.530%	0.037	0.031	3.60	4.30	2.95	3.30
SPH4018H2R2MT	2.220%	0.050	0.042	3.00	3.40	2.20	2.90
SPH4018H3R3MT	3.320%	0.066	0.055	2.30	2.90	2.00	2.50
SPH4018H4R7MT	4.720%	0.084	0.070	2.00	2.20	1.70	2.10
SPH4018H6R8MT	6.820%	0.118	0.098	1.60	1.80	1.45	1.70
SPH4018H100MT	1020%	0.180	0.150	1.30	1.50	1.20	1.50
SPH4018H150MT	1520%	0.252	0.210	1.10	1.20	0.85	1.20
SPH4018H220MT	2220%	0.348	0.290	0.90	1.10	0.70	1.00
SPH4018H330MT	3320%	0.552	0.460	0.70	0.90	0.55	0.82
SPH4018H470MT	4720%	0.744	0.620	0.57	0.70	0.50	0.66
SPH4018H680MT	6820%	0.972	0.810	0.53	0.62	0.40	0.60
SPH4018H101MT	10020%	1.560	1.300	0.49	0.57	0.40	0.47
SPH4018H151MT	15020%	3.120	2.600	0.41	0.47	0.28	0.33
SPH4018H221MT	22020%	3.840	3.200	0.33	0.38	0.25	0.29
SPH4018H331MT	33020%	5.880	4.900	0.26	0.31	0.20	0.23

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SPECIFICATIONS

SPH4020H Series

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@0.1MHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	H			A		A	
Symbol	L	DCR		Isat		Irms	
SPH4020HR33NT	0.3330%	0.016	0.013	7.50	8.50	3.30	4.90

SPH4030H Series

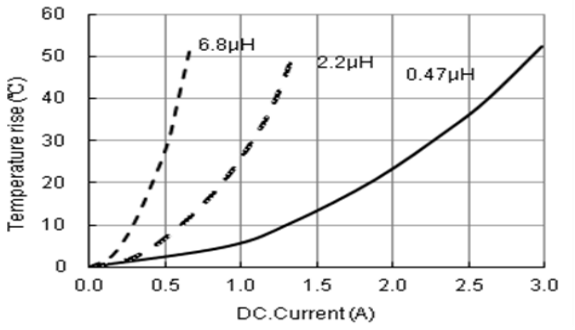
Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@0.1MHz,1V	Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	H			A		A	
Symbol	L	DCR		Isat		Irms	
SPH4030HR10NT	0.1030%	0.006	0.005	17.00	18.50	4.60	6.30
SPH4030HR22NT	0.2230%	0.007	0.006	11.50	12.50	3.90	5.20
SPH4030HR47NT	0.4730%	0.013	0.011	8.20	9.20	4.50	5.20

1: All test data is referenced to 20C ambient;
2: Rated current: Isat or Irms, whichever is smaller;
Isat: DC current at which the inductance drops approximate 30% from its value without current;
Irms: DC current that causes the temperature rise (T =40C) from 20C ambient.

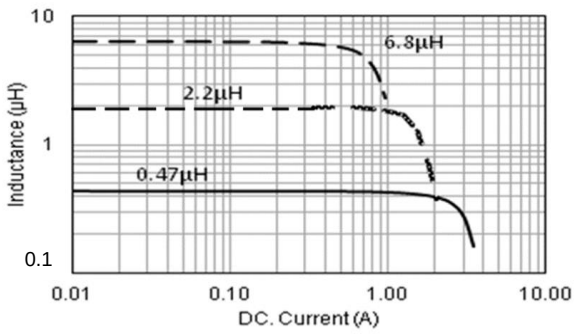
TYPICAL ELECTRICAL CHARACTERISTICS

SPH201610H Series

Temperature vs. DC Current Characteristics

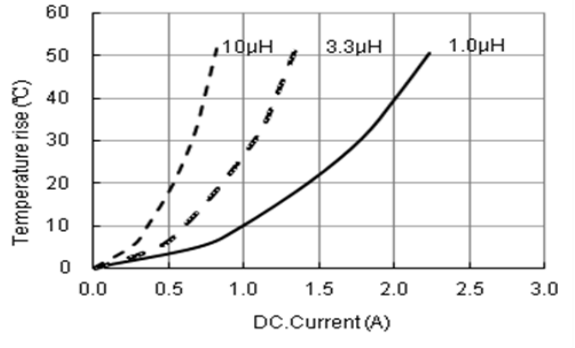


Inductance vs. DC Current Characteristics

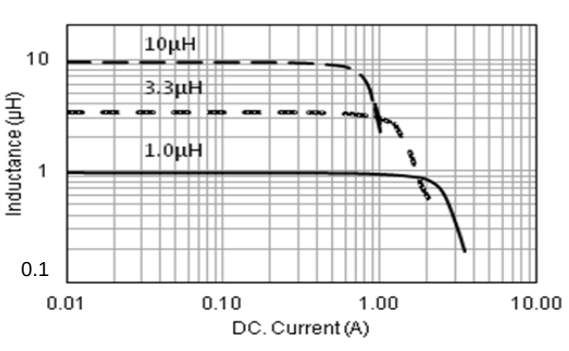


SPH252010H Series

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics



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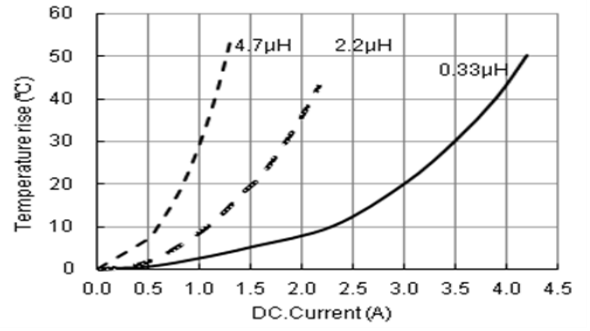
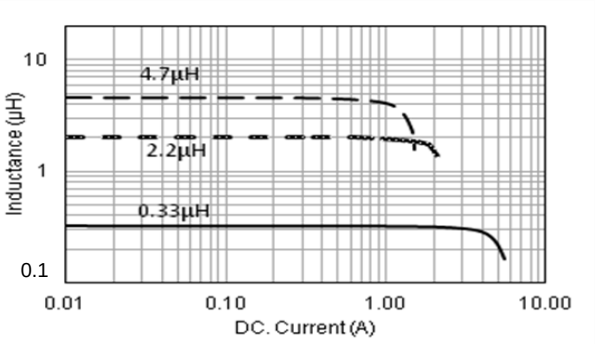
TYPICAL ELECTRICAL CHARACTERISTICS

SPH252012H Series

Temperature vs. DC Current Characteristics

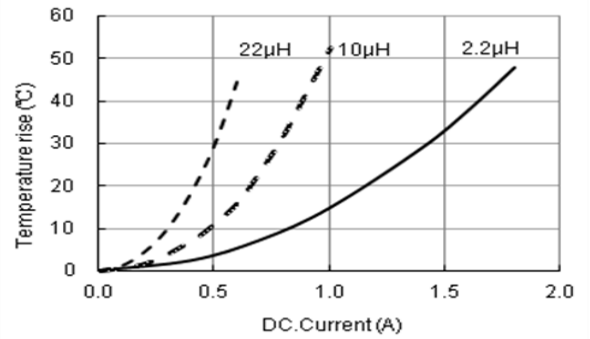


Inductance vs. DC Current Characteristics

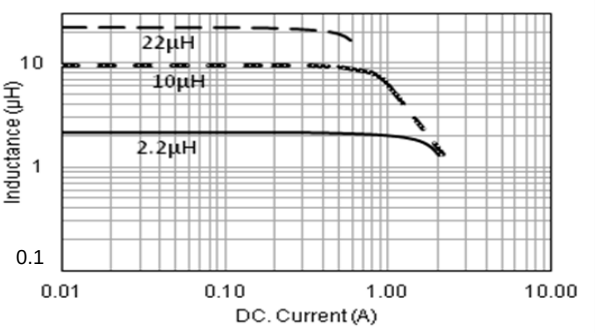


SPH3012H Series

Temperature vs. DC Current Characteristics

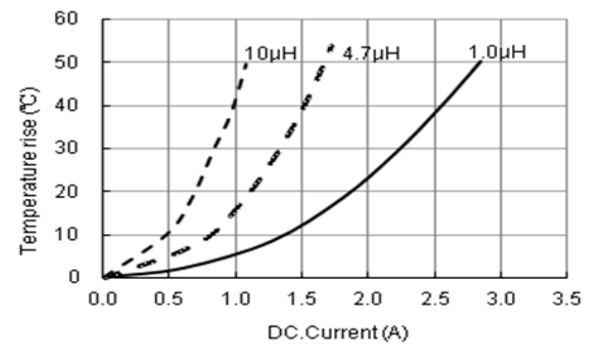


Inductance vs. DC Current Characteristics

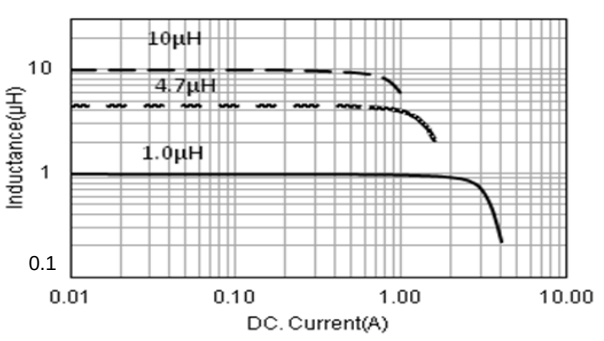


SPH3015H Series

Temperature vs. DC Current Characteristics

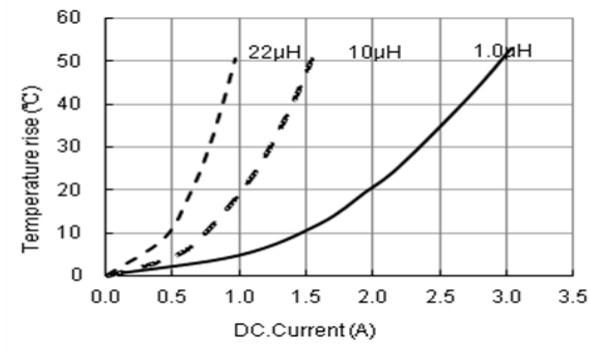


Inductance vs. DC Current Characteristics

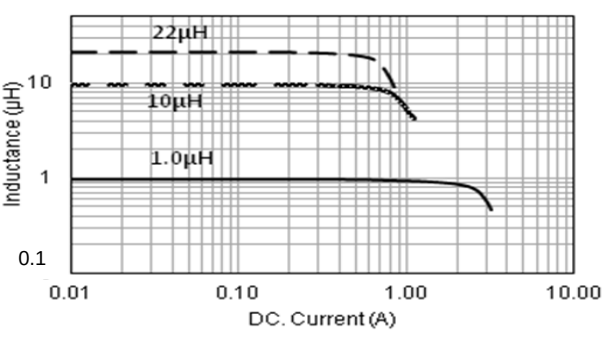


SPH4012H Series

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics



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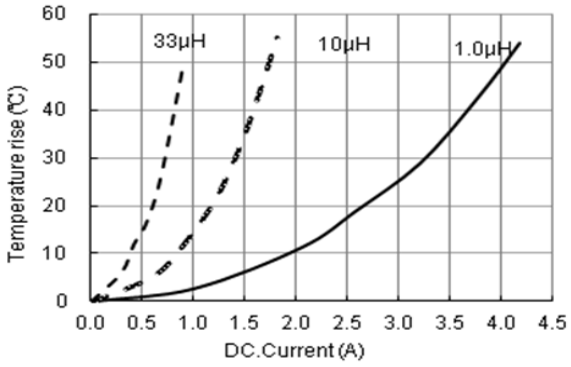
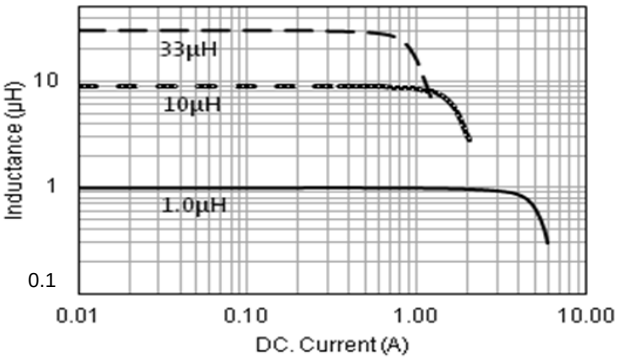
TYPICAL ELECTRICAL CHARACTERISTICS

SPH4018H Series

Temperature vs. DC Current Characteristics

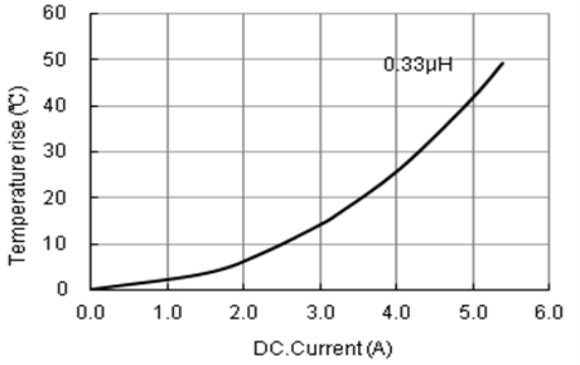


Inductance vs. DC Current Characteristics

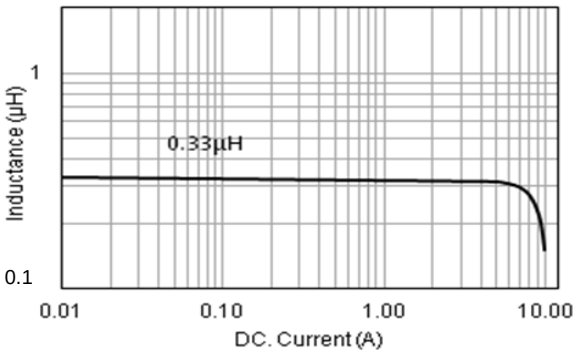


SPH4020H Series

Temperature vs. DC Current Characteristics

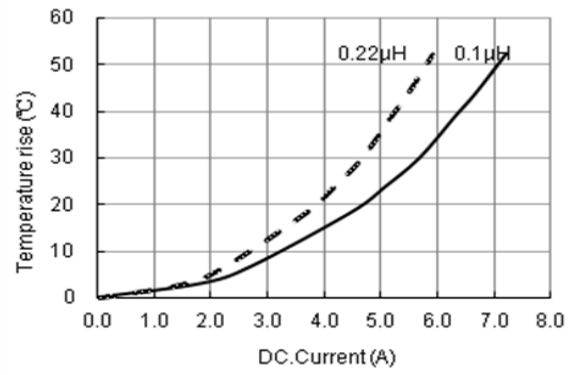


Inductance vs. DC Current Characteristics

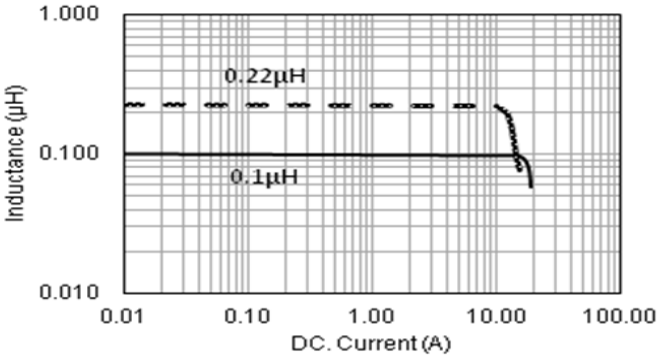


SPH4030H Series

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics



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