

SMD HIGH CURRENT SMD POWER BEAD INDUCTORS



MODEL NO. : SL4026 SERIES

FEATURES:

- * MAGNETICALLY SHIELDED, LOW DC RESISTANCE.
- * SUITABLE FOR LARGE CURRENT.
- * TAPE AND REEL PACKING.
- * FREQUENCY RANGE:UP TO 2 MHZ.
- * COMPLIANT WITH RoHS AND HALOGEN FREE.

* **Customers can choose the "DCR&L".**

APPLICATION :

- * SERVERS.
- * MOTHERBOARD.
- * VGA CARD.



ELECTRICAL SPECIFICATION:

PART NO	INDUCTANCE @0 ADC (nH)	DCR (mΩ) ±10%	INDUCTANCE @RATED CURRENT (nH) TYP	RATED CURRENT (ADC) (NOTE 2)	SATURATION CURRENT (ADC) (NOTE 3)	TEMPERATURE RISE CURRENT (ADC) (NOTE4)
SL4026-R15K	150±10%	0.29	146	50	61	50
SL4026-R20K	200±10%	0.29	170	40	40	50
SL4026-R30K	300±10%	0.29	250	27	27	50

NOTE(1) : Test frequency: 100 KHZ,1Vrms.

NOTE(2) : The rated current represents the DC current that the inductor can tolerate before saturation.

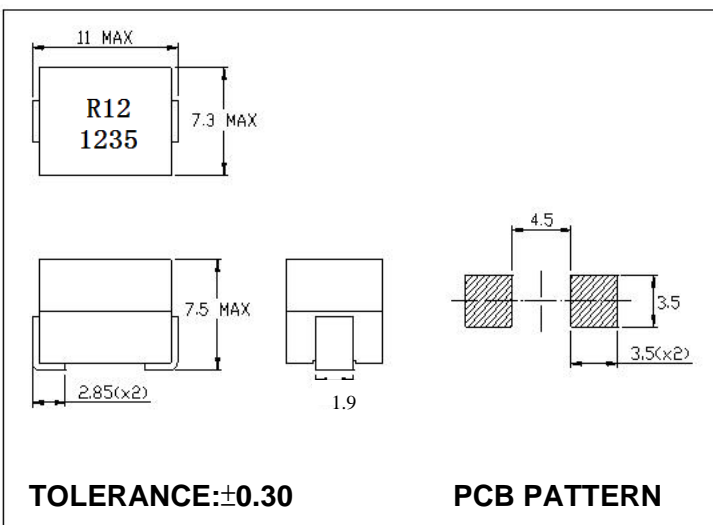
NOTE(3) : The saturation current indicates the value of DC current is approximately 20% lower than its initial value of inductance.

NOTE(4) : $\Delta T=40^{\circ}\text{C}$ approximately under the temperature rise current.

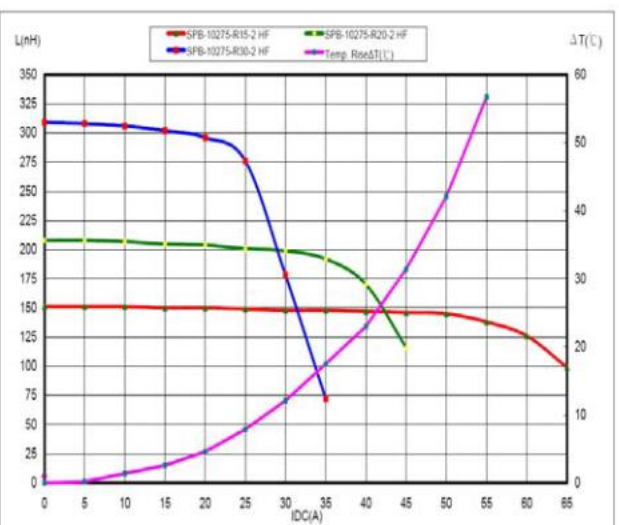
NOTE(5) : Operating temperature range: $-40^{\circ}\text{C}\sim+125^{\circ}\text{C}$.

NOTE (5): Weight :2.35g

PHYSICAL DIMENSION : (UNIT:mm)



INDUCTANCE /TEMPERATURE RISE VS DC BIAS:



PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",1000PCS.
2. TAPE WIDTH:24mm.
3. REEL WIDTH:29.5mm.
4. COMPONENT PITCH:12mm

SMD HIGH CURRENT POWER BEAD INDUCTORS



MODEL NO. : SL4034 SERIES

FEATURES:

- * SUPERIOR QUALITY FOR AN AUTOMATED PRODUCTION LINE.
- * PICK AND PLACE COMPATIBLE.
- * TAPE AND REEL PACKING.
- * FREQUENCY RANGE:UP TO 2 MHZ.
- * COMPLIANT WITH RoHS AND HALOGEN FREE.



APPLICATION :

- * SERVERS.
- * MOTHERBOARD.
- * VGA CARD.

ELECTRICAL SPECIFICATION:

PART NO	INDUCTANCE @0 ADC (nH) $\pm 10\%$	DCR (m Ω) $\pm 8\%$	INDUCTANCE @RATED CURRENT (nH) TYP	RATED CURRENT (ADC1)	SATURATION CURRENT (ADC) (NOTE 2)	TEMPERATURE RISE CURRENT (ADC3) TYP
SL4034-R12K	120	0.18	86	95	90	68
SL4034-R15K	150	0.18	108	79	72	59
SL4034-R18K	180	0.18	163	60	58	42
SL4034-R22K	220	0.18	186	55	49	36
SL4034-R30K	300	0.18	223	46	39	30

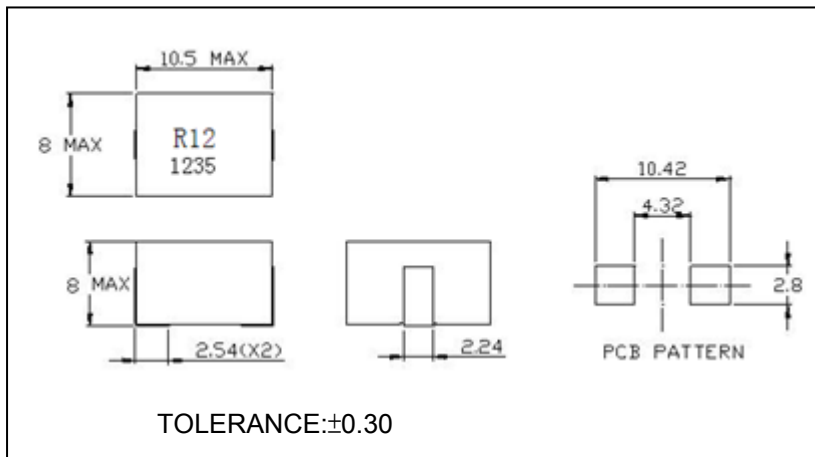
NOTE (1) : Test frequency: 100 KHZ,1Vrms.

NOTE (2) : The saturation current indicates the value of DC current is approximately 20% lower than its initial value of inductance.

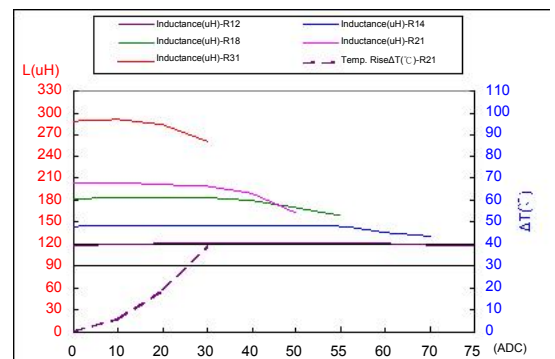
NOTE (3) : $\Delta T = 40^\circ\text{C}$ approximately under the temperature rise current.

NOTE(4): Operating temperature range: $-40^\circ\text{C} \sim +150^\circ\text{C}$.

PHYSICAL DIMENSION : (UNIT:mm)



INDUCTANCE /TEMPERATURE RISE VS DC BIAS:



PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13", 500PCS.
2. TAPE WIDTH:24mm.
3. REEL WIDTH:29.5mm.
4. COMPONENT PITCH:12mm

SMD HIGH CURRENT POWER BEAD INDUCTORS



MODEL NO. : SL4035 HF SERIES

FEATURES:

- * SUPERIOR QUALITY FOR AN AUTOMATED PRODUCTION LINE.
- * PICK AND PLACE COMPATIBLE.
- * TAPE AND REEL PACKING.
- * FREQUENCY RANGE: UP TO 2 MHZ.
- * COMPLIANT WITH RoHS AND HALOGEN FREE.



APPLICATION :

- * SERVERS.
- * MOTHERBOARD.
- * VGA CARD.

ELECTRICAL SPECIFICATION:

PART NO	INDUCTANCE @0 ADC (nH) $\pm 10\%$	DCR (m Ω) $\pm 10\%$	INDUCTANCE @RATED CURRENT (nH) TYP	RATED CURRENT (ADC)	SATURATION CURRENT (ADC) (NOTE 2)	TEMPERATURE RISE CURRENT (ADC) TYP
SL4035-R22 HF	225	0.51	225	35	65	35
SL4035-R27 HF	270	0.51	280	35	50	35
SL4035-R33 HF	330	0.51	325	35	40	35
SL4035-R47 HF	470	0.51	420	28	28	35

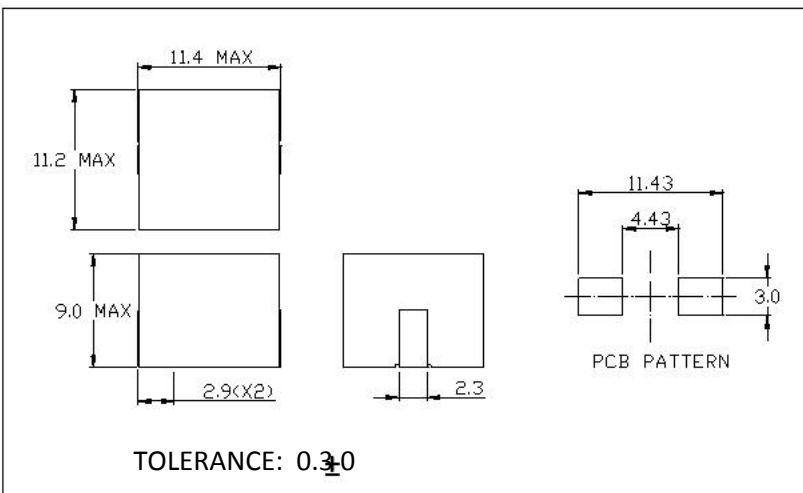
NOTE(1) : Test frequency: 100 KHZ, 1Vrms.

NOTE(2) : The saturation current indicates the value of DC current is approximately 20% lower than its initial value of inductance.

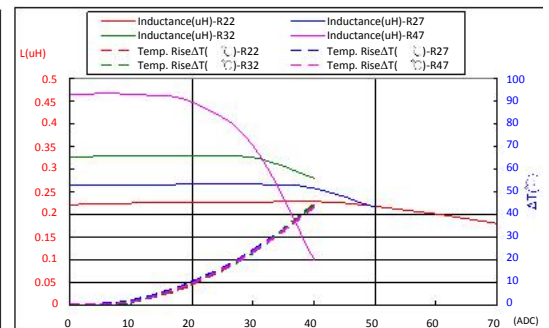
NOTE(3) : $\Delta T = 40^\circ\text{C}$ approximately under the temperature rise current.

NOTE(4) : Operating temperature range: $-40^\circ\text{C} \sim +150^\circ\text{C}$.

PHYSICAL DIMENSION : (UNIT:mm)



INDUCTANCE /TEMPERATURE RISE VS DC BIAS:



PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",250PCS.
2. TAPE WIDTH:24mm.
3. REEL WIDTH:29.5mm.
4. COMPONENT PITCH:24mm

SMD HIGH CURRENT POWER BEAD INDUCTORS



MODEL NO. : SL5032 HF SERIES

FEATURES:

- * SUPERIOR QUALITY FOR AN AUTOMATED PRODUCTION LINE.
- * PICK AND PLACE COMPATIBLE.
- * TAPE AND REEL PACKING.
- * FREQUENCY RANGE: UP TO 2 MHZ.
- * COMPLIANT WITH RoHS AND HALOGEN FREE.



APPLICATION :

- * SERVERS.
- * MOTHERBOARD.
- * VGA CARD.

ELECTRICAL SPECIFICATION:

PART NO	INDUCTANCE @0 ADC (nH) ±20%	DCR (mΩ) ±10%	INDUCTANCE @RATED CURRENT (nH) TYP	RATED CURRENT (ADC)	SATURATION CURRENT (ADC) (NOTE 2)	TEMPERATURE RISE CURRENT (ADC) TYP
SL5032-R22 HF	220	0.3	205	45	71	45
SL5032-R25 HF	250	0.3	239	45	60	45
SL5032-R32 HF	320	0.3	285	41	45	45
SL5032-R44 HF	440	0.3	363	30	32	45

PART NO	INDUCTANCE @0 ADC (nH) ±20%	DCR (mΩ) ±14%	INDUCTANCE @RATED CURRENT (nH) TYP	RATED CURRENT (ADC)	SATURATION CURRENT (ADC) (NOTE 2)	TEMPERATURE RISE CURRENT (ADC) TYP
SL5032A-R22 HF	220	1.68	205	45	71	45
SL5032A-R25 HF	250	1.68	232	45	60	45
SL5032A-R32 HF	320	1.68	285	41	45	45
SL5032A-R44 HF	440	1.68	363	30	32	45

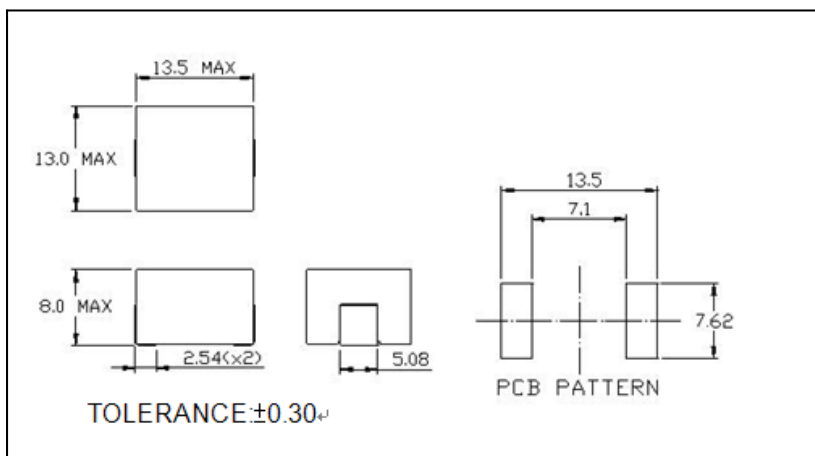
NOTE(1) : Test frequency: 500 KHz, 1Vrms.

NOTE(2) : The saturation current indicates the value of DC current is approximately 20% lower than its initial value of inductance.

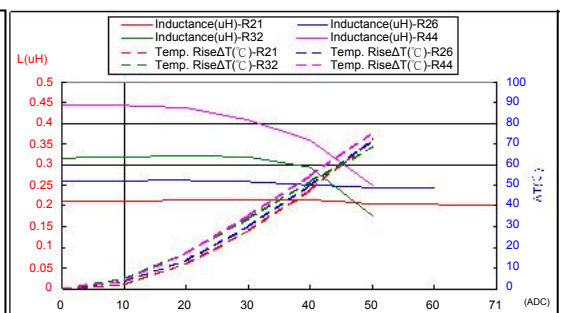
NOTE(3) : $\Delta T = 40^{\circ}\text{C}$ approximately under the temperature rise current.

NOTE(4) : Operating temperature range: $-40^{\circ}\text{C} \sim +150^{\circ}\text{C}$.

PHYSICAL DIMENSION : (UNIT:mm)



INDUCTANCE /TEMPERATURE RISE VS DC BIAS:



PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",300PCS.
2. TAPE WIDTH:24mm.
3. REEL WIDTH:29.5mm.
4. COMPONENT PITCH:24mm

SMD HIGH CURRENT SMD POWER INDUCTORS



MODEL NO. : SL2828 SERIES

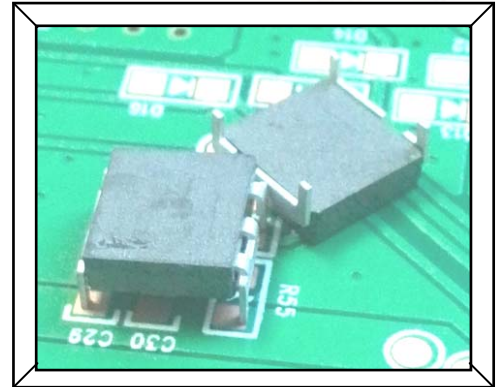
FEATURES:

- * MAGNETICALLY SHIELDED, LOW DC RESISTANCE.
- * SUITABLE FOR LARGE CURRENT.
- * TAPE AND REEL PACKING.
- * FREQUENCY RANGE:UP TO 2 MHZ.
- * COMPLIANT WITH RoHS AND HALOGEN FREE.

* **Customers can choose the "DCR&L".**

APPLICATION :

- * SERVERS.
- * MOTHERBOARD.
- * VGA CARD.



ELECTRICAL SPECIFICATION:

PART NO	INDUCTANCE @0 ADC (nH)	DCR (mΩ) ±15%	INDUCTANCE @RATED CURRENT (nH) TYP	RATED CURRENT (ADC) (NOTE 2)	SATURATION CURRENT (ADC) (NOTE 3)	TEMPERATURE RISE CURRENT (ADC) (NOTE4)
SL2828-R33	330±20%	2.2	220	12	14	10

NOTE(1) : Test frequency: 100 KHZ,1Vrms.

NOTE(2) : The rated current represents the DC current that the inductor can tolerate before saturation.

NOTE(3) : The saturation current indicates the value of DC current is approximately 20% lower than its initial value of inductance.

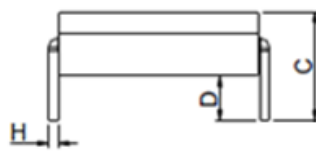
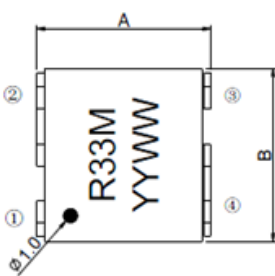
NOTE(4) : $\Delta T=40^{\circ}\text{C}$ approximately under the temperature rise current.

NOTE(5) : Operating temperature range: $-40^{\circ}\text{C}\sim+125^{\circ}\text{C}$.

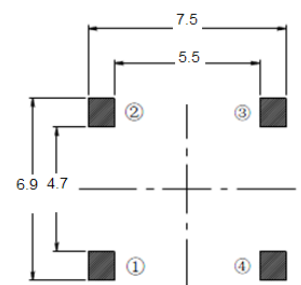
NOTE (5): Weight :1.12g

PHYSICAL DIMENSION : (UNIT:mm)

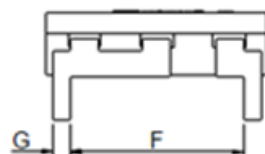
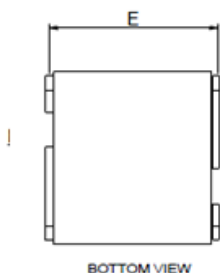
INDUCTANCE /TEMPERATURE RISE VS DC BIAS:



A	7.0 Max
B	7.0 Max
C	$3.3^{+0.30}_{-0.15}$
D	$1.15^{+0.2}_{-0.1}$
E	6.5
F	5.2
G	0.6
H	0.4



PCB PATTERN



PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",1200PCS.
2. TAPE WIDTH:24mm.
3. REEL WIDTH:29.5mm.
4. COMPONENT PITCH:12mm

SMD HIGH CURRENT SMD POWER INDUCTORS



MODEL NO. : SL4040 SERIES

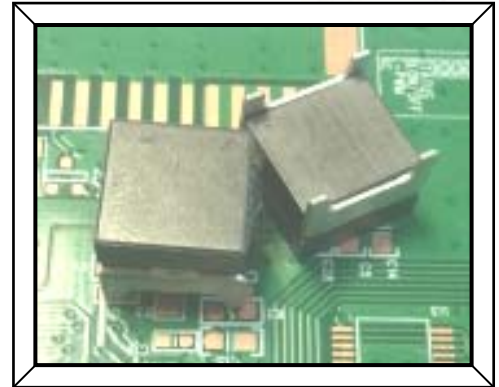
FEATURES:

- * MAGNETICALLY SHIELDED, LOW DC RESISTANCE.
- * SUITABLE FOR LARGE CURRENT.
- * TAPE AND REEL PACKING.
- * FREQUENCY RANGE:UP TO 2 MHZ.
- * COMPLIANT WITH RoHS AND HALOGEN FREE.

* **Customers can choose the "DCR&L".**

APPLICATION :

- * SERVERS.
- * MOTHERBOARD.
- * VGA CARD.



ELECTRICAL SPECIFICATION:

PART NO	INDUCTANCE @0 ADC (nH)	DCR (mΩ) ±10%	INDUCTANCE @RATED CURRENT (nH) TYP	RATED CURRENT (ADC) (NOTE 2)	SATURATION CURRENT (ADC) (NOTE 3)	TEMPERATURE RISE CURRENT (ADC) (NOTE4)
SL4040-R22K	220±10%	0.31	155	40	49	39
SL4040-R33K	330±10%	0.31	233	35	39	33
SL4040-R44K	440±10%	0.31	306	27	29	25

NOTE(1) : Test frequency: 500 KHz,1Vrms.

NOTE(2) : The rated current represents the DC current that the inductor can tolerate before saturation.

NOTE(3) : The saturation current indicates the value of DC current is approximately 20% lower than its initial value of inductance.

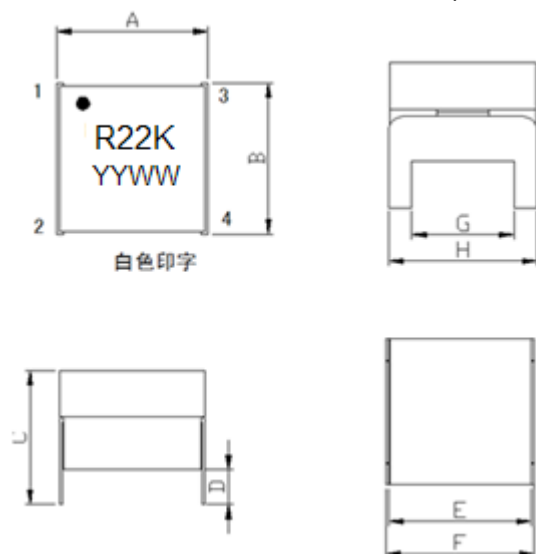
NOTE(4) : ΔT=40°C approximately under the temperature rise current.

NOTE(5) : Operating temperature range: -40°C~+125°C.

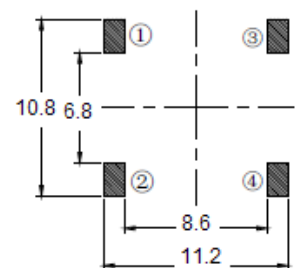
NOTE (5): Weight :1.12g

PHYSICAL DIMENSION : (UNIT:mm)

INDUCTANCE /TEMPERATURE RISE VS DC BIAS:



A	10.4 Max
B	10.4 Max
C	9.2 Max
D	2.2 Min
E	10.1±0.3
F	9.1±0.3
G	10.1±0.3
H	7.1±0.3



PCB PATTERN

PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",400PCS.
2. TAPE WIDTH:24mm.
3. REEL WIDTH:29.5mm.
4. COMPONENT PITCH:12mm

SMD HIGH CURRENT INDUCTORS



MODEL NO. : HIA62 SERIES

FEATURES:

- * LOW CORE LOSS, HIGH EFFICIENCY PERFORMANCE, HIGH MAGNETIC CHARACTERISTICS.
- * CLOSED MAGNETIC FIELD CONSTRUCTION FOR HIGH DENSITY BOARD ASSEMBLY .
- * RIBBON WIRE STRUCTURE.
- * CUSTOM DESIGNS AVAILABLE.
- * LOWEST HEIGHT(2.4mm) IN THIS PACKAGE FOOTPRINT.
- * COMPLIANT WITH RoHS AND HALOGEN FREE.



APPLICATION :

- * NOTEBOOK COMPUTERS. * VGA CARD.
- * SERVERS. * PDA.
- * DC/DC CONVERTER IN POWER REGULATION SYSTEM.

ELECTRICAL SPECIFICATION:

PART NO	INDUCTANCE (μ H) $\pm 20\%$ @0ADC	INDUCTANCE (μ H) TYP @TEMPERATURE RISE CURRENT	TEMPERATURE RISE CURRENT (ADC)	INDUCTANCE (μ H)Typ @ SATURATION CURRENT	SATURATION CURRENT (ADC) (NOTE 3)	DCR $\pm 10\%$ (m Ω)
HIA62-R15	0.15 $\pm 30\%$	0.123	20	0.11	25.8	1.65
HIA62-R32	0.32 $\pm 30\%$	0.28	12	0.26	16	3.85
HIA62-R67	0.67	0.56	8.5	0.52	11	6.70
HIA62-1R0	1.0	0.90	5.5	0.80	8.8	16.1

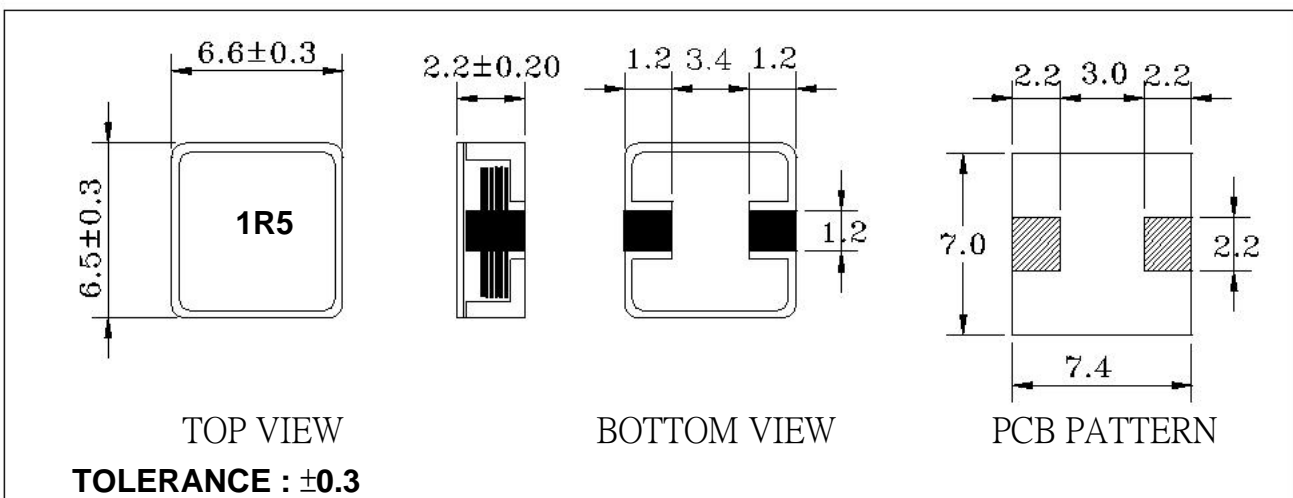
NOTE(1): Test frequency: 100 KHZ,1Vrms.

NOTE(2): $\Delta T=40^{\circ}\text{C}$ approximately under the temperature rise current.

NOTE(3): The saturation current indicates the value of DC current is approximately 20% lower than its initial value of inductance.

NOTE(4): Operating temperature range: $-40^{\circ}\text{C} \sim +150^{\circ}\text{C}$

PHYSICAL DIMENSION : (UNIT:mm)



PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",1500PCS.
2. TAPE WIDTH:16mm.
3. REEL WIDTH:22.4mm.
4. COMPONENT PITCH:12mm

SMD HIGH CURRENT INDUCTORS



MODEL NO. : HIA73 SERIES

FEATURES:

- * LOW PROFILE, HIGH POWER, LOW LOSS, LOW DCR WITH LARGE CURRENT DESIGN.
- * CLOSED MAGNETIC CIRCUIT CONSTRUCTION FOR HIGH DENSITY BOARD ASSEMBLY .
- * COMPACT SIZE WITH HIGH PERFORMANCE DUST CORE AND RIBBON WIRE STRUCTURE.
- * CUSTOM DESIGNS AVAILABLE.
- * COMPLIANT WITH RoHS AND HALOGEN FREE.



APPLICATION :

- * NOTEBOOK COMPUTERS. * VGA CARD. * INDUCTOR FOR GENERAL PURPOSE AVAILABLE.
- * DC/DC CONVERTER IN POWER REGULATION SYSTEM.

ELECTRICAL SPECIFICATION:

PART NO	INDUCTANCE (μ H) TYP @0ADC	INDUCTANCE (μ H) \pm 20%	TEMPERATURE RISE CURRENT (ADC)	INDUCTANCE (μ H)Typ	SATURATION CURRENT (ADC) (NOTE 3)	DCR \pm 10% (m Ω)
HIA73-R12	0.13	0.12	22.0	0.11	32	0.91
HIA73-R22	0.24	0.22	20.0	0.19	30	1.6
HIA73-R25	0.30	0.25	19.0	0.22	25	1.6
HIA73-R44	0.48	0.44	14.0	0.41	18	3.7
HIA73-R75	0.95	0.75	9.5	0.70	13	6.2
HIA73-1R0	1.15	1.0	8.5	0.9	11	8.0
HIA73-1R5	1.65	1.5	5.5	1.2	9.0	13.5
HIA73-1R6	2.0	1.6	5.5	1.4	9.0	13.5
HIA73-1R8	2.2	1.8	5.5	1.6	9.0	17.2

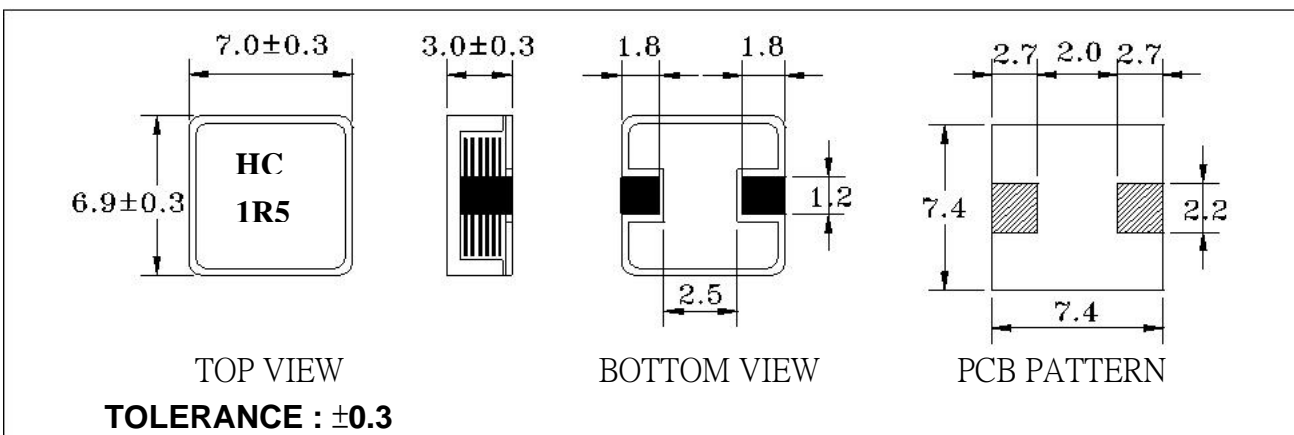
NOTE(1): Test frequency: 100 KHZ,1Vrms.

NOTE(2): $\Delta T=45^{\circ}\text{C}$ approximately under the temperature rise current

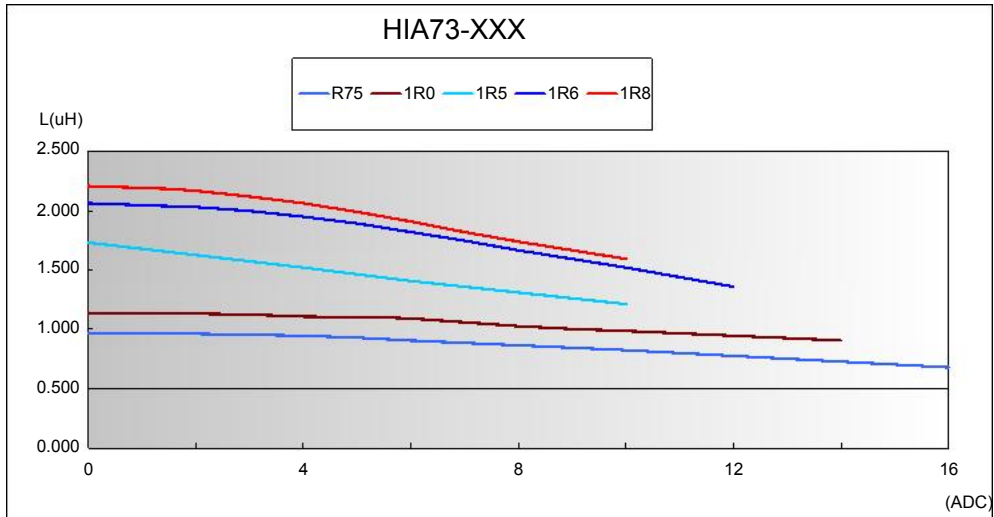
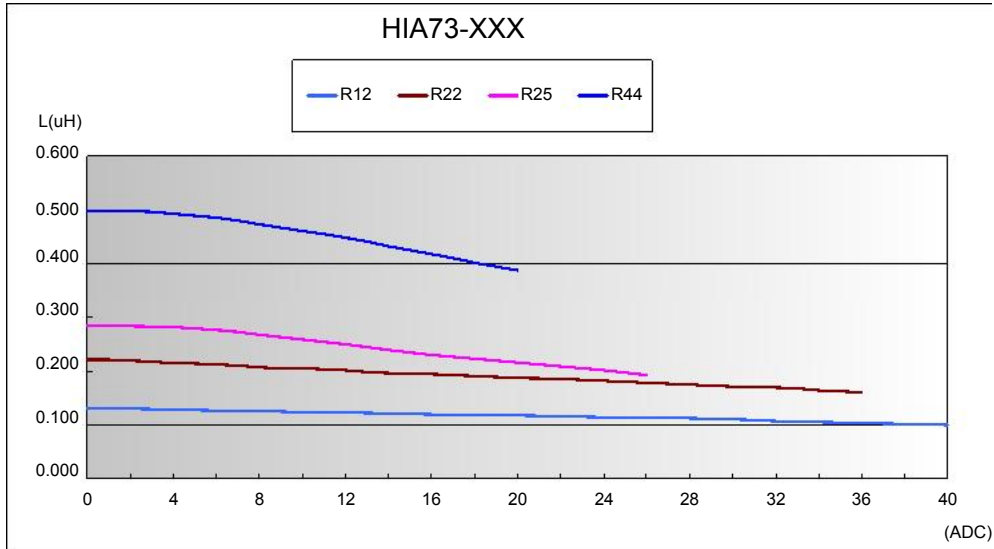
NOTE(3): The saturation current indicates the value of DC current is approximately 30% lower than its initial value of inductance.

NOTE(4): Operating temperature range: $-40^{\circ}\text{C}\sim+150^{\circ}\text{C}$.

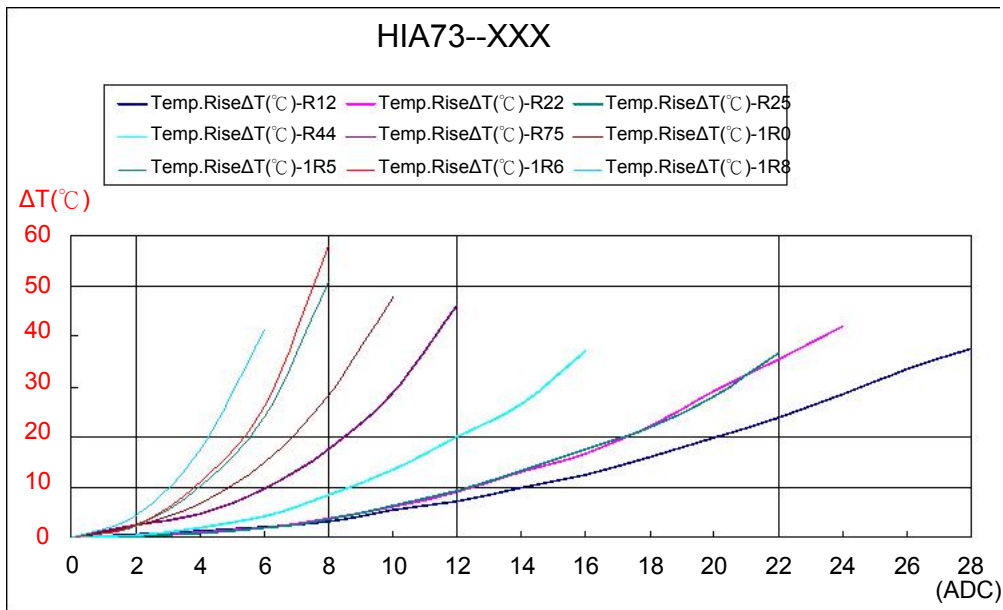
PHYSICAL DIMENSION : (UNIT:mm)



INDUCTANCE VS DC BIAS:



TEMPERATURE RISE VS DC BIAS:



PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",1500PCS.
2. TAPE WIDTH:16mm.
3. REEL WIDTH:22.4mm.
4. COMPONENT PITCH:12mm

SMD HIGH CURRENT INDUCTORS



MODEL NO. : HIA84 SERIES

FEATURES:

- * LOW CORE LOSS, HIGH EFFICIENCY PERFORMANCE, HIGH MAGNETIC CHARACTERISTICS.
- * CLOSED MAGNETIC FIELD CONSTRUCTION FOR HIGH DENSITY BOARD ASSEMBLY .
- * RIBBON WIRE STRUCTURE.
- * CUSTOM DESIGNS AVAILABLE.
- * COMPLIANT WITH RoHS AND HALOGEN FREE.



APPLICATION :

- * NOTEBOOK COMPUTERS. * VGA CARD.
- * DC/DC CONVERTER IN POWER REGULATION SYSTEM.

ELECTRICAL SPECIFICATION:

PART NO	INDUCTANCE (μ H) $\pm 20\%$ @0ADC	INDUCTANCE (μ H) TYP	TEMPERATURE RISE CURRENT (ADC)	INDUCTANCE (μ H)TYP	SATURATION CURRENT (ADC) (NOTE 3)	DCR $\pm 10\%$ (m Ω)
HIA84-R12	0.12 $\pm 30\%$	0.11	26.0	0.95	45.0	0.72
HIA84-R30	0.30 $\pm 30\%$	0.26	17.0	0.21	36.0	1.25
HIA84-R60	0.6	0.48	16.5	0.42	25.0	1.90
HIA84-1R0	1.0	0.77	14.0	0.7	17.5	3.10
HIA84-1R5	1.5	1.0	13.0	1.0	13.0	4.50
HIA84-2R0	2.0	1.45	10.5	1.45	10.5	6.10
HIA84-2R7	2.7	1.9	9.5	1.9	9.5	8.00
HIA84-3R5	3.5	2.45	8.0	2.45	8.0	10.3
HIA84-4R2	4.2	3.2	7.0	3.0	7.8	13.4
HIA84-5R2	5.2	4.0	6.0	3.6	7.5	17.3
HIA84-6R2	6.2	4.7	5.5	4.3	6.5	20.7

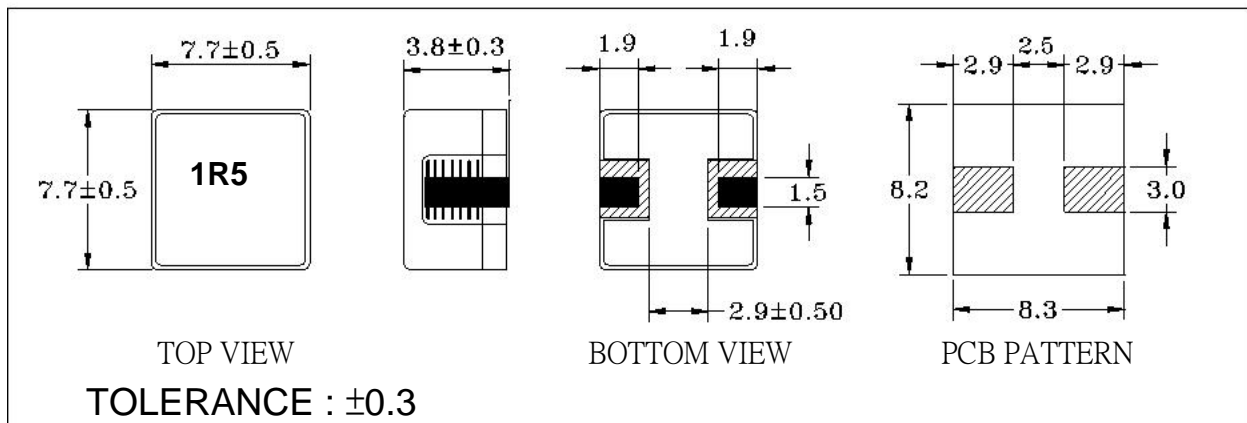
NOTE(1): Test frequency: 100 KHZ,1Vrms.

NOTE(2): $\Delta T=40^{\circ}\text{C}$ approximately under the temperature rise current.

NOTE(3): The saturation current indicates the value of DC current is approximately 30% lower than its initial value of inductance.

NOTE(4): Operating temperature range: $-40^{\circ}\text{C} \sim +150^{\circ}\text{C}$

PHYSICAL DIMENSION : (UNIT:mm)



PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",1000PCS.
2. TAPE WIDTH:16mm.
3. REEL WIDTH:22.4mm.
4. COMPONENT PITCH:12mm

SMD HIGH CURRENT INDUCTORS



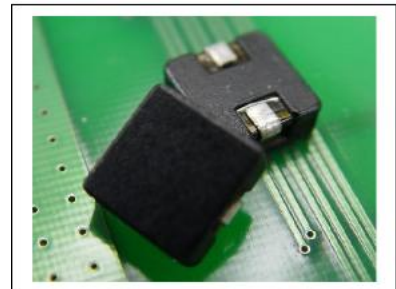
MODEL NO. : HIA104SERIES

FEATURES:

- * LOW PROFILE, HIGH POWER, LOW LOSS, LOW DCR WITH LARGE CURRENT DESIGN.
- * CLOSED MAGNETIC CIRCUIT CONSTRUCTION FOR BOTH SMALL MAGNETIC LEAKAGE FLUX AND HIGH DENSITY BOARD ASSEMBLY .
- * CUSTOM DESIGNS AVAILABLE.
- * COMPACT SIZE WITH HIGH PERFORMANCE CORE AND FLAT WIRE STRUCTURE.
- * SOLUTION FOR STRONGER STRUCTURE AND MORE EFFICIENT NOISE SUPPRESSION.
- * COMPLIANT WITH RoHS AND HALOGEN FREE.

APPLICATION :

- * DC/DC CONVERTER IN POWER REGULATION SYSTEM.
- * CPU INDUCTORS IN NOTEBOOK COMPUTERS.
- * INDUCTOR FOR GENERAL PURPOSE AVAILABLE.



ELECTRICAL SPECIFICATION:

PART NO	INDUCTANCE (uH) $\pm 20\%$ @0 ADC	DCR $\pm 10\%$ (m Ω)	INDUCTANCE (uH) TYP	TEMPERATURE RISE CURRENT (ADC)	SATURATION CURRENT (ADC) (NOTE 3)
HIA104-R15N	0.15 $\pm 30\%$	0.58	0.13	25	36
HIA104-R34M	0.34	1.10	0.27	24	35
HIA104-R62M	0.62	1.71	0.47	21	19
HIA104-1R0M	1.00	3.30	0.73	14	17
HIA104-1R5M	1.50	5.20	1.10	13	12
HIA104-2R0M	2.00	7.30	1.55	10.5	11
HIA104-2R8M	2.80	10.6	2.10	9.0	10.5
HIA104-4R3M	4.30	14.1	3.20	7.5	9.5
HIA104-5R6M	5.60	21.1	4.10	6.0	8.3

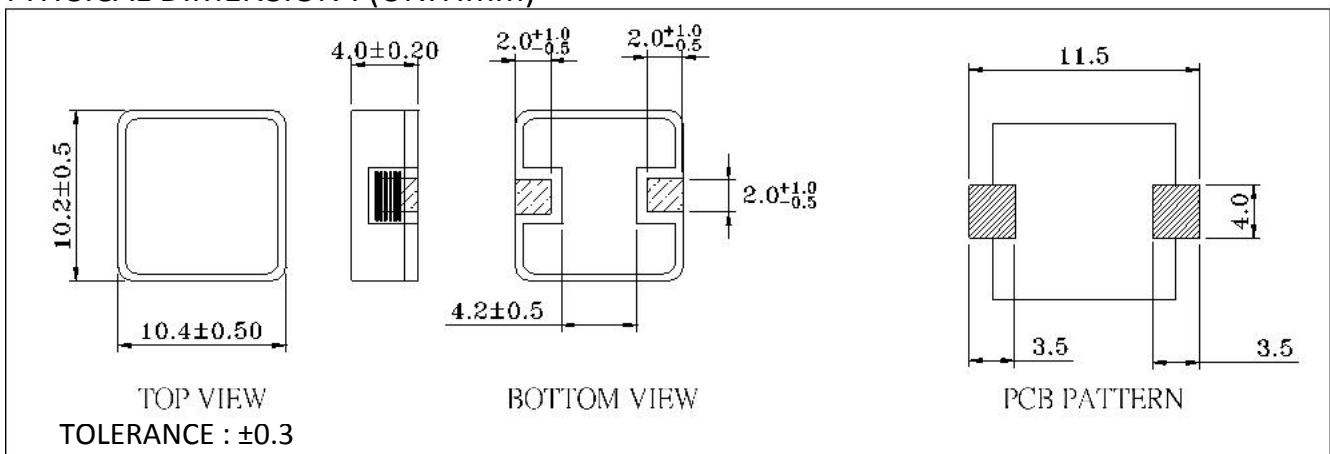
NOTE(1): Measuring condition: 100 KHz, 0.1Vrms

NOTE(2): $\Delta T=40\text{ }^\circ\text{C}$ approximately under the temperature rise current.

NOTE(3): The saturation current indicates the value of DC current is approximately 30% lower than its initial value of inductance.

NOTE(4): Operating temperature range: $-40 \sim +150\text{ }^\circ\text{C}$

PHYSICAL DIMENSION : (UNIT:mm)



PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",800PCS.
2. TAPE WIDTH:24mm.
3. REEL WIDTH:29.5mm.
4. COMPONENT PITCH:16mm

SMD

HIGH CURRENT INDUCTORS



MODEL NO. : **HIA135 SERIES**

FEATURES:

- * LOW CORE LOSS, HIGH EFFICIENCY PERFORMANCE, HIGH MAGNETIC CHARACTERISTICS.
- * CLOSED MAGNETIC FIELD CONSTRUCTION FOR HIGH DENSITY BOARD ASSEMBLY.
- * RIBBON WIRE STRUCTURE.
- * CUSTOM DESIGNS AVAILABLE.
- * COMPLIANT WITH RoHS AND HALOGEN FREE.

APPLICATION :

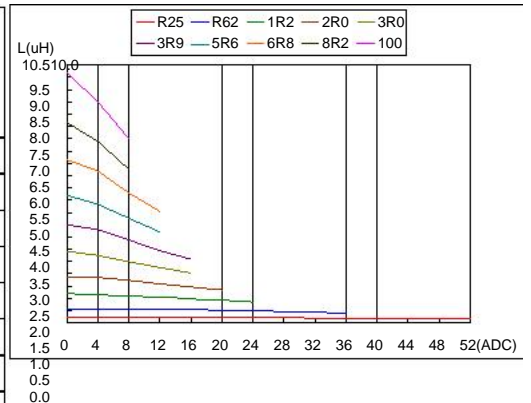
- * DC/DC CONVERTER IN POWER REGULATION SYSTEM.
- * CPU INDUCTOR IN NOTEBOOK COMPUTERS.
- * VGA CARD.



ELECTRICAL SPECIFICATION:

PART NO	INDUCTANCE (uH)±20% @0ADC	INDUCTANCE (uH)TYP @TEMPERATURE RISE CURRENT	TEMPERATURE RISE CURRENT (ADC)	SATURATION CURRENT (ADC) (NOTE 3)	DCR ±10% (mOHMS)
HIA135-R25	0.25±30%	0.21	30.0	50.0	0.50
HIA135-R62	0.62	0.48	27.0	34.0	0.90
HIA135-1R2	1.2	0.90	22.0	24.0	1.67
HIA135-2R2	2.2	1.45	18.5	20.0	2.60
HIA135-3R0	3.0	2.1	15.5	15.0	3.74
HIA135-3R9	3.9	3.0	13.0	14.0	5.40
HIA135-5R6	5.6	3.8	11.0	12.0	7.64
HIA135-6R8	6.8	5.0	9.5	10.5	10.6
HIA135-8R2	8.2	6.1	9.0	9.5	11.9
HIA135-100	10.0	7.5	8.0	9.0	15.0

INDUCTANCE VS DC BIAS:



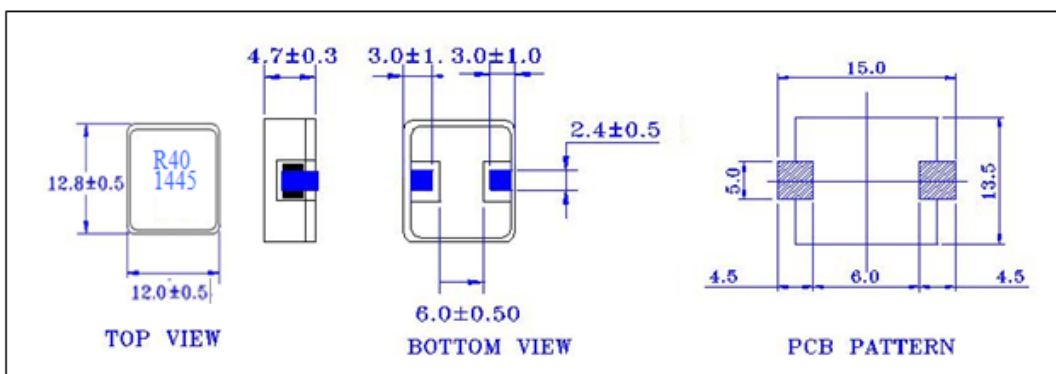
NOTE(1) : Test frequency: 100 KHz, 1Vrms.

NOTE(2) : $\Delta T=40^{\circ}\text{C}$ approximately under the temperature rise current.

NOTE(3) : The saturation current indicates the value of DC current is approximately 30% lower than its initial value of inductance.

NOTE(4) : Operating temperature range: $-40^{\circ}\text{C} \sim +150^{\circ}\text{C}$

PHYSICAL DIMENSION : (UNIT:mm)



PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",400PCS.
2. TAPE WIDTH:24mm.
3. REEL WIDTH:29.5mm
4. COMPONENT PITCH:16mm

SMD HIGH CURRENT INDUCTORS



MODEL NO. : HIA146 SERIES

FEATURES:

- * LOW CORE LOSS, HIGH EFFICIENCY PERFORMANCE, HIGH MAGNETIC CHARACTERISTICS.
- * CLOSED MAGNETIC FIELD CONSTRUCTION FOR HIGH DENSITY BOARD ASSEMBLY.
- * RIBBON WIRE STRUCTURE.
- * CUSTOM DESIGNS AVAILABLE.
- * COMPLIANT WITH RoHS AND HALOGEN FREE.



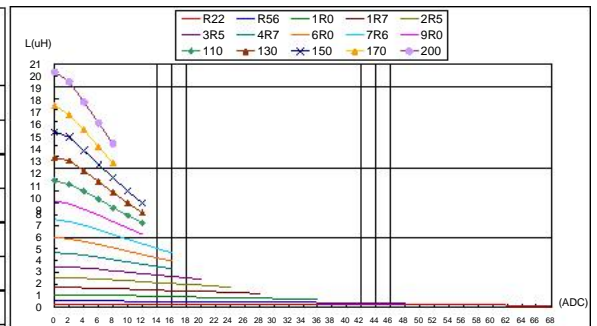
APPLICATION :

- * DC/DC CONVERTER IN POWER REGULATION SYSTEM.
- * CPU INDUCTOR IN NOTEBOOK COMPUTERS.
- * VGA CARD.

ELECTRICAL SPECIFICATION:

PART NO	INDUCTANCE (uH)±20% @0ADC	INDUCTANCE (uH)TYP @TEMPERATURE RISE CURRENT	TEMPERATURE RISE CURRENT (ADC)	SATURATION CURRENT (ADC) (NOTE 3)	DCR ±10% (mOHMS)
HIA146-R22	0.22±30%	0.20	50.0	66.0	0.44
HIA146-R40	0.50	0.40	40.0	45.0	0.70
HIA146-1R0	1.0	0.82	27.0	33.0	1.15
HIA146-1R5	1.4	1.20	25.0	27.0	1.80
HIA146-2R5	2.5	2.0	18.5	22.0	2.75
HIA146-3R5	3.5	2.6	17.0	19.0	3.60
HIA146-4R7	4.7	3.5	14.5	16.0	4.80
HIA146-6R0	6.0	4.6	12.0	14.5	6.75
HIA146-7R6	7.6	5.8	11.0	12.5	8.30
HIA146-9R0	9.0	7.0	9.5	11.5	10.1
HIA146-110	11.0	8.5	8.5	10.5	12.5
HIA146-130	13.0	10.0	8.0	9.5	15.0
HIA146-150	15.0	11.5	7.5	8.5	18.0
HIA146-170	17.0	13.5	6.5	8.0	24.0
HIA146-200	20.0	16.0	6.0	7.5	26.0

INDUCTANCE VS DC BIAS:



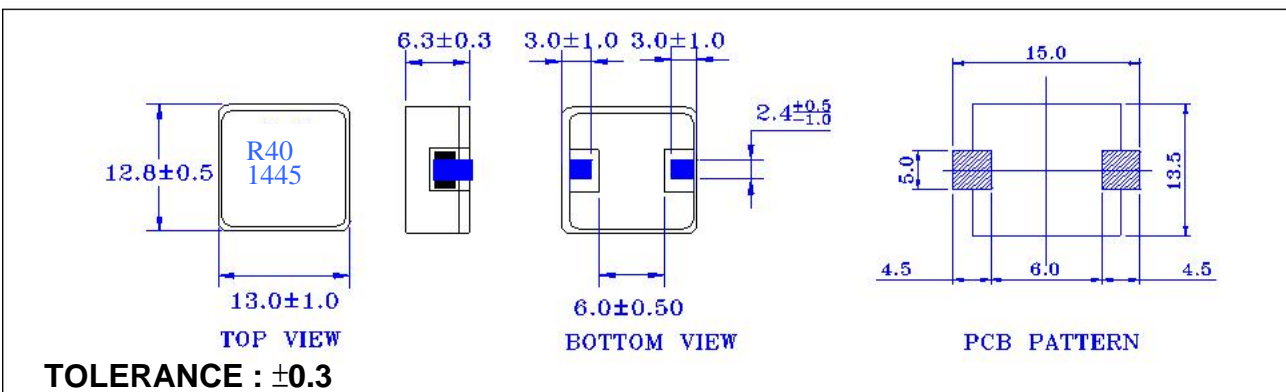
NOTE(1) : Test frequency: 100 KHz,1Vrms.

NOTE(2) : Δ T=40°C approximately under the temperature rise current.

NOTE(3) : The saturation current indicates the value of DC current is approximately 30% lower than its initial value of inductance.

NOTE(4): Operating temperature range: -40°C ~ +150°C

PHYSICAL DIMENSION : (UNIT:mm)



PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",400PCS.
2. TAPE WIDTH:24mm.
3. REEL WIDTH:29.5mm
4. COMPONENT PITCH:16mm

SMD HIGH CURRENT INDUCTORS



MODEL NO. : HIA188 SERIES

FEATURES:

- * SUPERIOR QUALITY FOR AN AUTOMATED PRODUCTION LINE.
- * PICK AND PLACE COMPATIBLE.
- * TAPE AND REEL PACKING.
- * COMPLIANT WITH RoHS AND HALOGEN FREE.



APPLICATION :

- * DC-DC CONVERTERS.
- * SERVERS.
- * ROUTERS.

ELECTRICAL SPECIFICATION:

PART NO	INDUCTANCE (uH) ±20%	DCR (mΩ) ±10%	INDUCTANCE (uH) TYP @TEMPERATURE RISE CURRENT	TEMPERATURE RISE CURRENT (ADC) MAX	SATURATION CURRENT (ADC) (NOTE 3)
HIA188-1R4	1.4	0.93	1.2	33.0	61
HIA188-2R2	2.2	1.4	1.8	29.0	52
HIA188-3R3	3.3	2.4	2.8	24.0	41
HIA188-4R7	4.7	3.4	4.0	21.0	34
HIA188-5R6	5.6	3.7	4.8	18.5	32
HIA188-6R8	6.8	4.7	5.8	16.0	28
HIA188-100	10	8.0	7.6	13.5	18
HIA188-180	18	13.3	15.1	9.5	12
HIA188-220	22	18.0	19.0	8.3	11
HIA188-270	27	19.5	23.5	8.0	9.3
HIA188-470	47	38.0	43.0	5.5	7.0

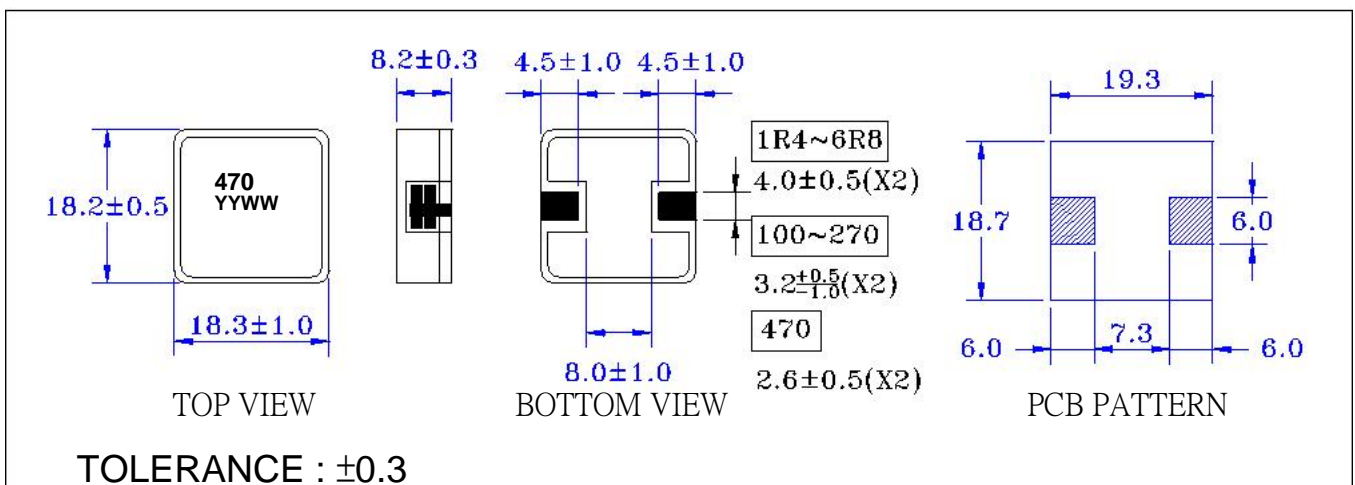
NOTE(1): Test frequency: 100 KHz, 1Vrms.

NOTE(2): ΔT=40°C approximately under the temperature rise current.

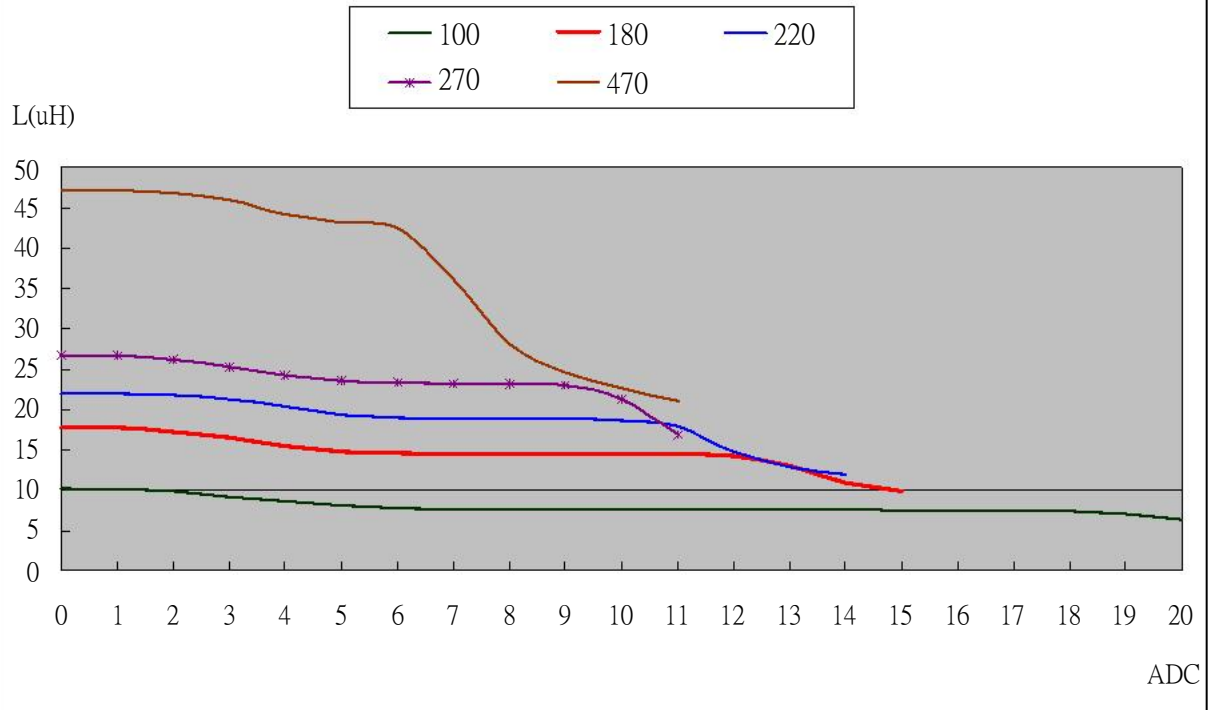
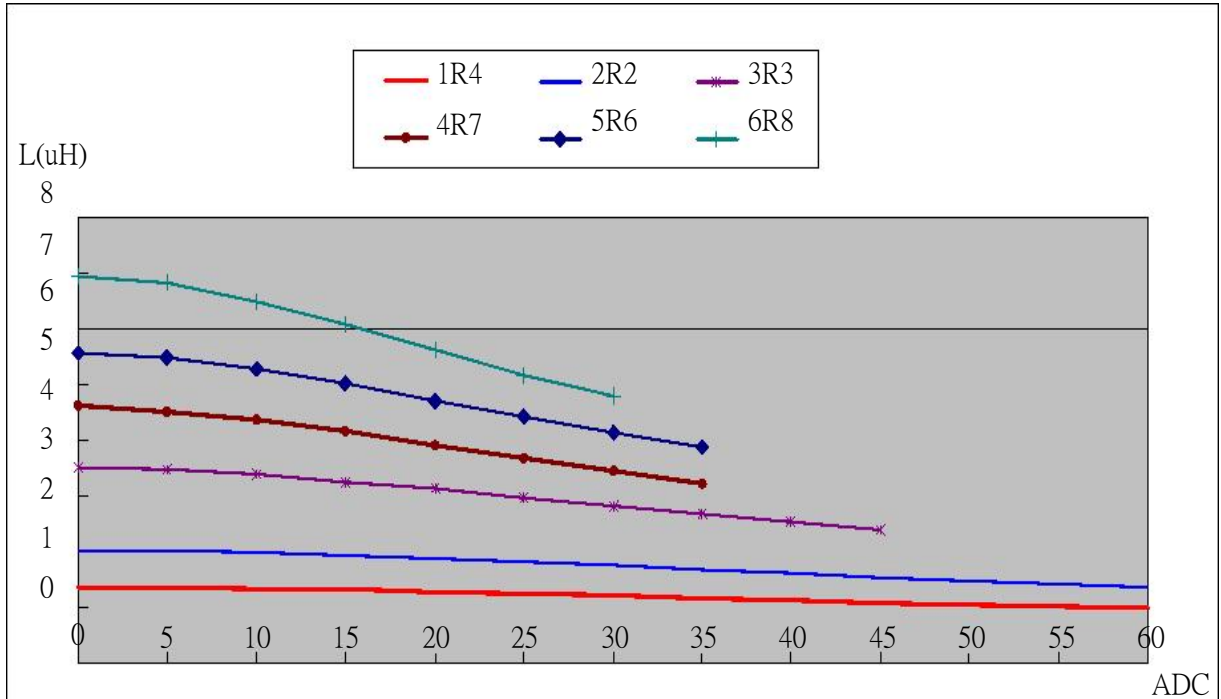
NOTE(3): The saturation current indicates the value of DC current is approximately 30% lower than its initial value of inductance.

NOTE(4): Operating temperature range: -40°C ~ +150°C.

PHYSICAL DIMENSION : (UNIT:mm)



INDUCTANCE VS DC BIAS:



PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",150PCS.
2. TAPE WIDTH:32mm.
3. REEL WIDTH:38.4mm
4. COMPONENT PITCH:32mm

SMD HIGH CURRENT INDUCTORS

MODEL NO : PQ2715 & PQ2718 & PQ2720 SERIES

FEATURES:

- * LOW CORE LOSS AND HIGH EFFICIENCY PERFORMANCE.
- * CLOSED MAGNETIC FIELD CONSTRUCTION FOR HIGH DENSITY BOARD ASSEMBLY.
- * THIRD MOUNTING PAD FOR GREATER STABILITY AND BOARD ADHESION.
- * COMPLIANT WITH RoHS AND HALOGEN FREE.



APPLICATION:

- λ DC/DC CONVERTER IN POWER REGULATION SYSTEM.
- λ PV INVERTERS.

ELECTRICAL SPECIFICATION:

MODEL NO	INDUCTANCE ±10% (μH)	DCR ±10% (mΩ)	TEMPERATURE RISE CURRENT (ADC)	SATURATION CURRENT (ADC) (NOTE 3)	TOTAL HEIGHT MAX (mm)
PQ2715-1R5L	1.5	1.50	30	> 100	15.36
PQ2715-2R2H	2.2	1.83	30	> 100	15.36
PQ2715-2R2L	2.2	1.50	30	84.8	15.36
PQ2715-3R3H	3.3	1.83	30	68.4	15.36
PQ2715-3R3L	3.3	1.50	30	57.0	15.36
PQ2715-4R7H	4.7	1.83	30	50.1	15.36
PQ2715-4R7L	4.7	1.50	30	39.0	15.36
PQ2715-6R8H	6.8	1.83	30	36.2	15.36
PQ2715-6R8L	6.8	1.50	30	27.8	15.36
PQ2715-100H	10	1.83	30	23.4	15.36
PQ2715-100L	10	1.50	30	17.6	15.36
PQ2715-150H	15	1.83	30	15.2	15.36
PQ2715-150L	15	1.50	30	11.0	15.36
PQ2715-220H	22	1.83	30	9.6	15.36
PQ2715-220L	22	1.50	30	6.8	15.36
PQ2715-330H	33	1.83	30	5.9	15.36
PQ2715-330L	33	1.50	30	3.3	15.36
PQ2718-3R3H	3.3	2.45	28	93.6	17.78
PQ2718-4R7H	4.7	2.45	28	62.4	17.78
PQ2718-6R8H	6.8	2.45	28	45.9	17.78
PQ2718-100H	10	2.45	28	32.1	17.78
PQ2718-150H	15	2.45	28	21.5	17.78
PQ2718-220H	22	2.45	28	14.5	17.78
PQ2718-330H	33	2.45	28	9.3	17.78
PQ2718-500H	50	10.5	15.0	15.0	19.0
PQ2720-100H	10	3.45	28	41.0	19.8

NOTE (1): Test frequency: 500 KHZ ,0.1Vrms.

NOTE (2): ΔT=40°C approximately under the temperature rise current.

NOTE (3): The saturation current indicates the value of DC current is approximately 30% lower than its initial value of inductance.

NOTE (4): Operating temperature range: -40°C~ +125°C

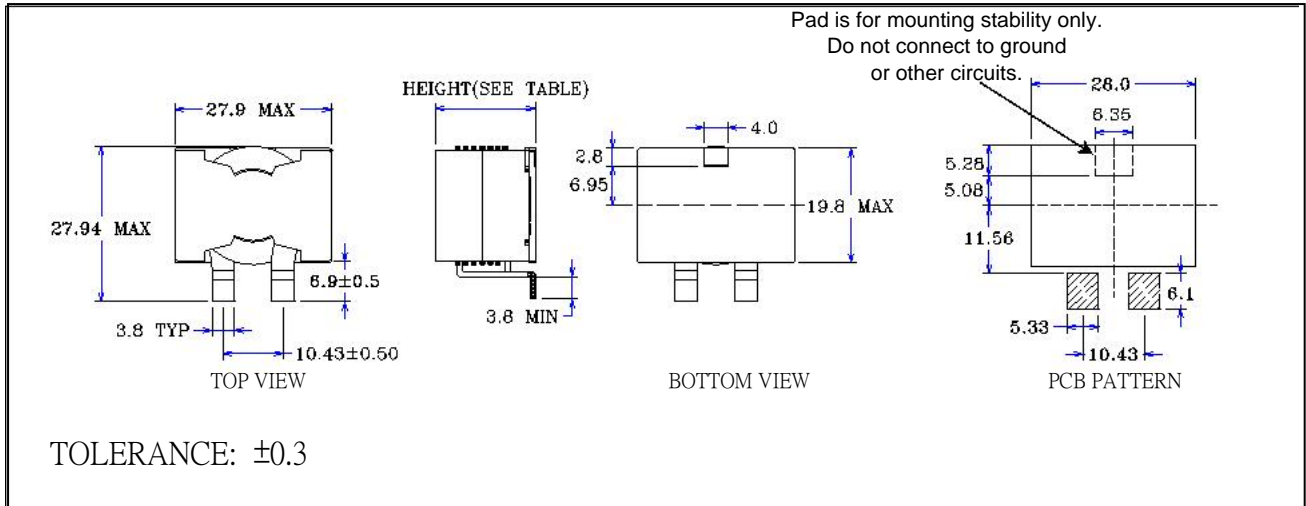
NOTE (5): Weight: PQ2715H Series : 31 g / pcs.

PQ2715L Series : 29.8 g / pcs.

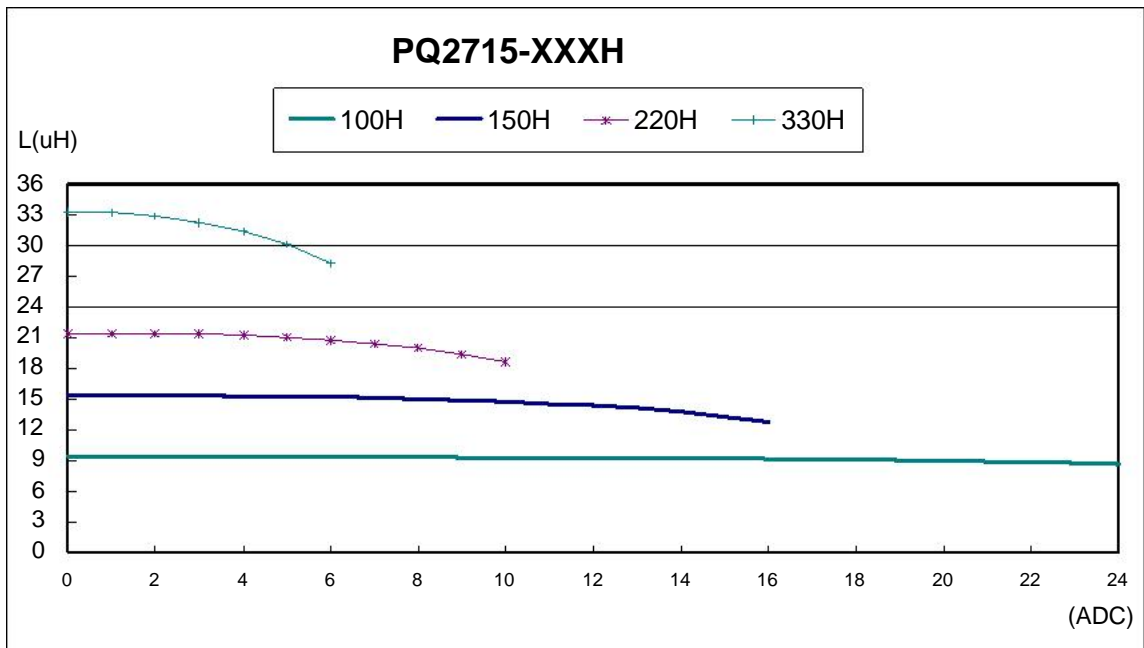
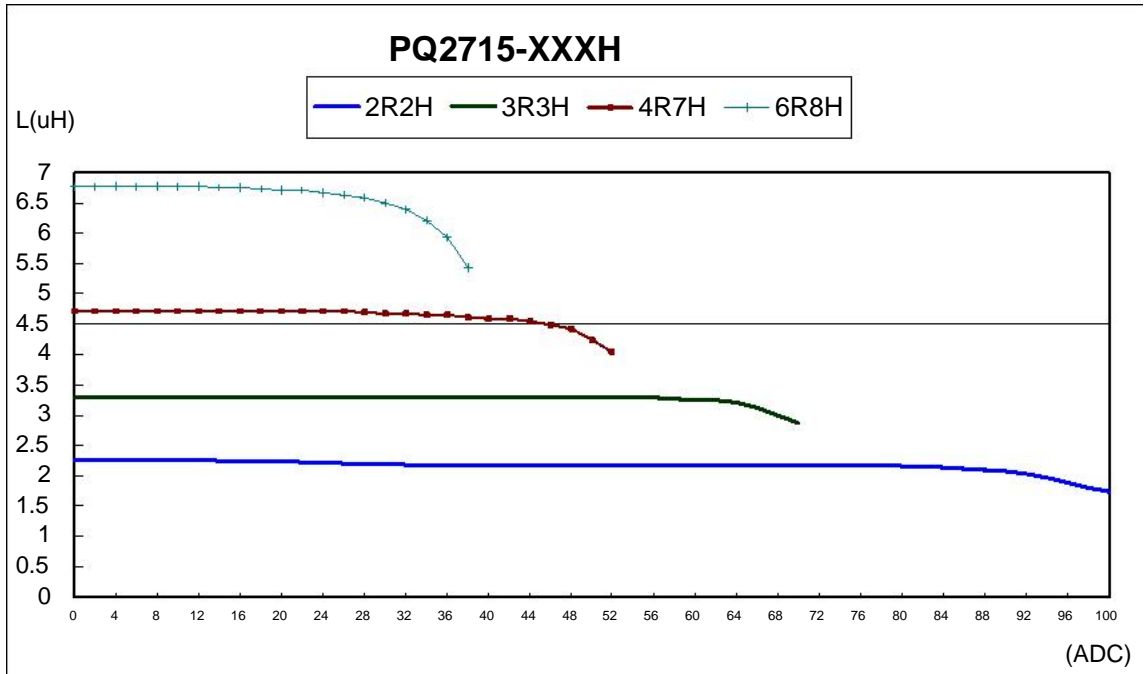
PQ2718H Series: 33.9 g / pcs.

PQ2720 Series : 41..2 g / pcs.

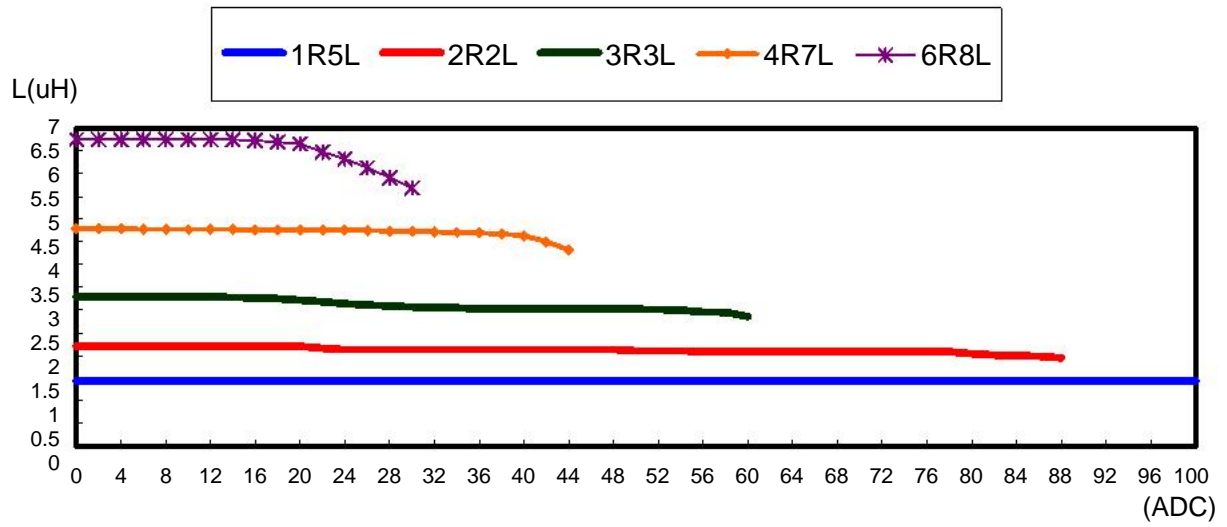
PHYSICAL DIMENSION : (UNIT:mm)



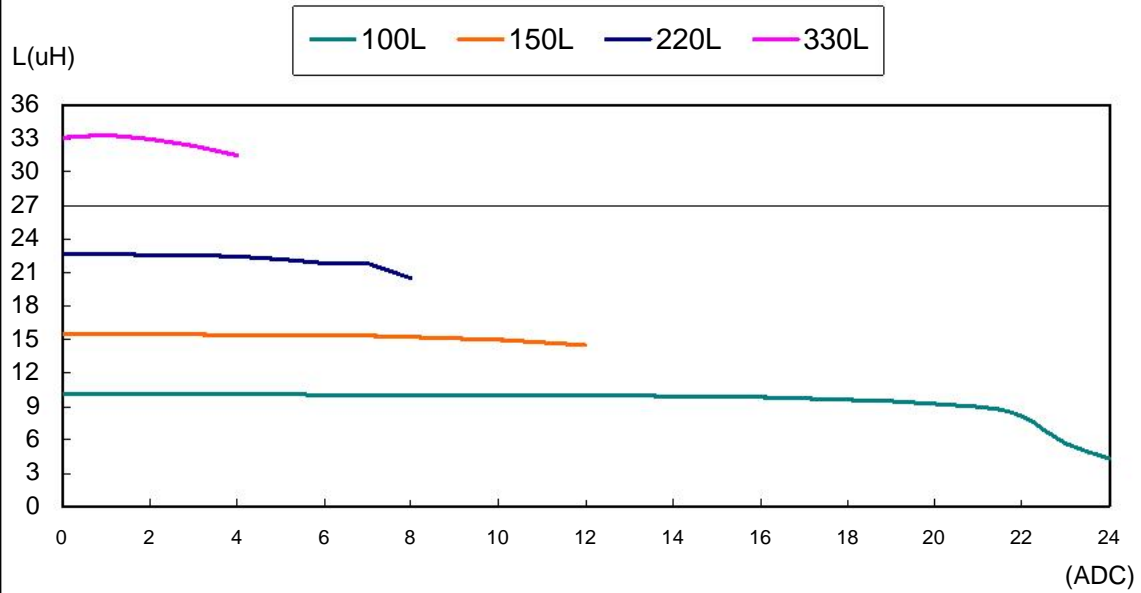
INDUCTANCE VS DC BIAS:



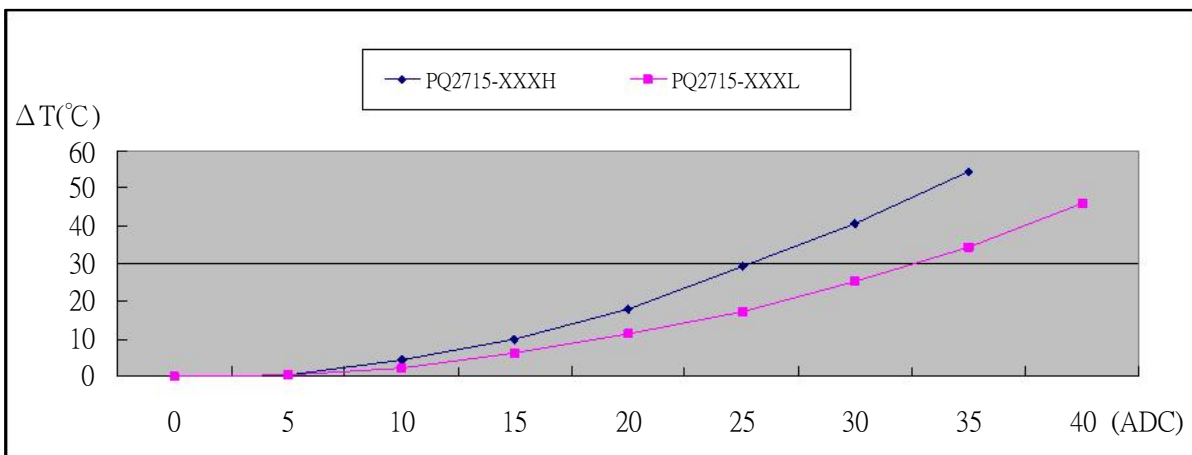
PQ2715-XXXL



PQ2715-XXXL



TEMPERATURE RISE VS DC BIAS:



SMD



HIGH CURRENT INDUCTORS

MODEL NO : SER198 & SER199 SERIES

FEATURES:

- * LOW CORE LOSS AND HIGH EFFICIENCY PERFORMANCE.
- * CLOSED MAGNETIC FIELD CONSTRUCTION FOR HIGH DENSITY BOARD ASSEMBLY
- * COMPLIANT WITH RoHS AND HALOGEN FREE.



APPLICATION:

* DC/DC CONVERTER IN POWER REGULATION SYSTEM.

ELECTRICAL SPECIFICATION:

MODEL NO	INDUCTANCE ±20% (uH)	DCR ±10% (mΩ)	TEMPERATURE RISE CURRENT (ADC)	SATURATION CURRENT (ADC) (NOTE 3)	TOTAL HEIGHT MAX (mm)
SER198-R30	0.30	0.67	45	100	8.64
SER198-R50	0.50	0.67	45	60	8.64
SER198-R60	0.60	0.67	45	49	8.64
SER198-R68	0.68	0.67	45	45	8.64
SER198-R80	0.80	0.67	45	38	8.64
SER198-R90	0.90	0.67	45	33	8.64
SER198-1R0	1.00	0.67	45	29	8.64
SER198-1R2	1.20	0.67	45	27	8.64
SER198-2R0	2.00	0.67	45	15	8.64
SER199-R30	0.30	0.90	45	100	9.40
SER199-R50	0.50	0.90	45	81	9.40
SER199-R60	0.60	0.90	45	70	9.40
SER199-R68	0.68	0.90	45	62	9.40
SER199-R80	0.80	0.90	45	53	9.40
SER199-R90	0.90	0.90	45	48	9.40
SER199-1R0	1.00	0.90	45	42	9.40
SER199-1R2	1.20	0.90	45	37	9.40
SER199-2R0	2.00	0.90	45	27	9.40

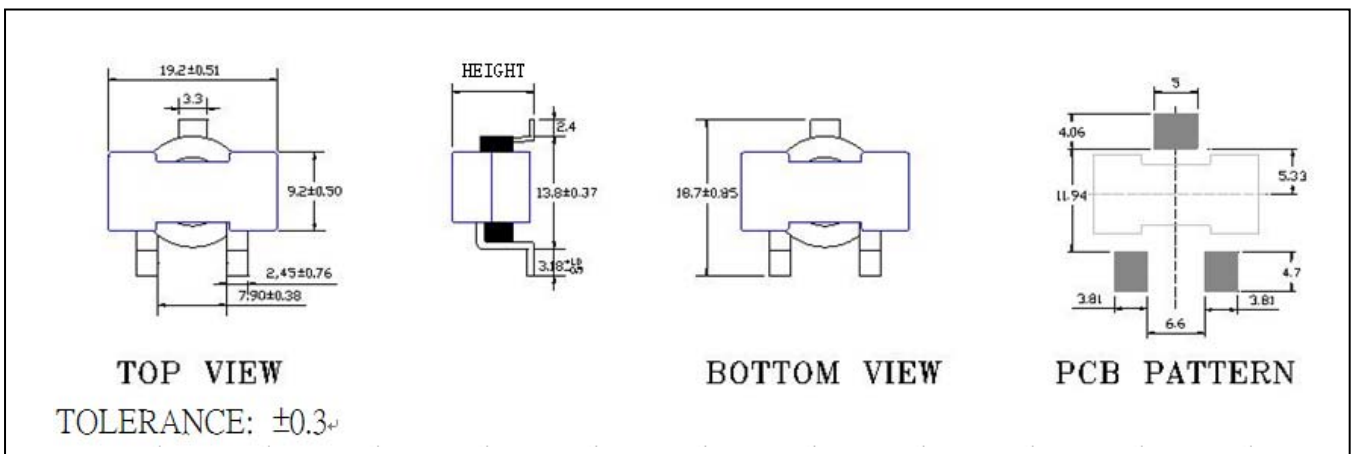
NOTE (1): Test frequency: 100 KHz ,0.1Vrms.

NOTE (2): $\Delta T=40^{\circ}\text{C}$ approximately under the temperature rise current.

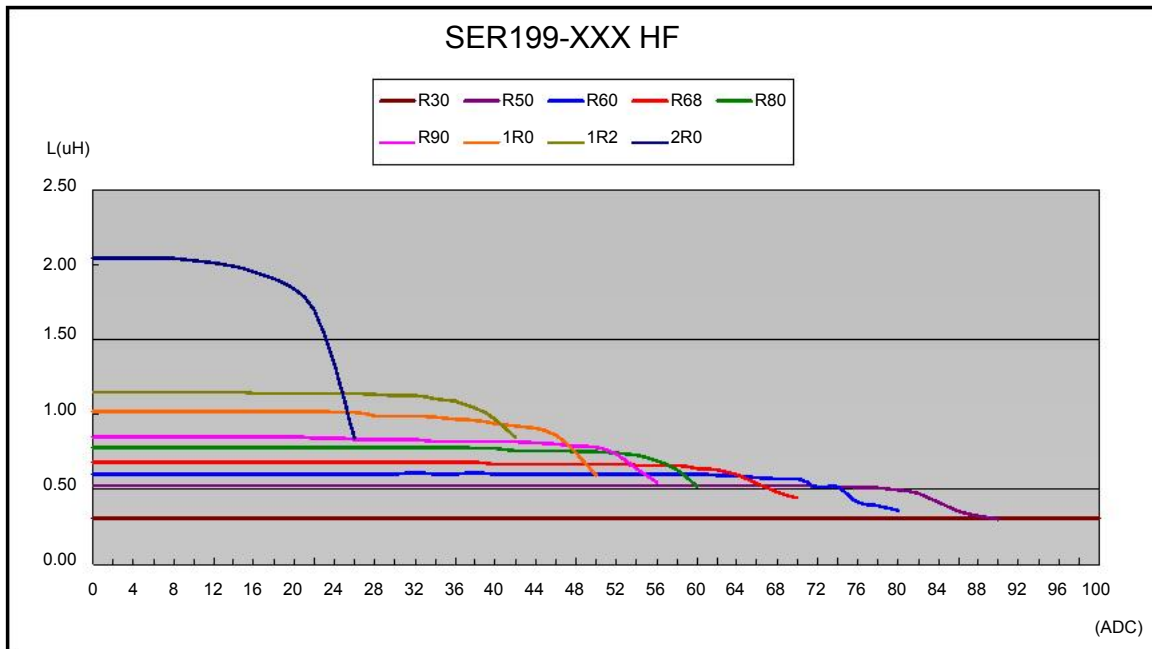
NOTE (3): The saturation current indicates the value of DC current is approximately 15% lower than its initial value of inductance.

NOTE (4): Operating temperature range: $-40^{\circ}\text{C}\sim+150^{\circ}\text{C}$.

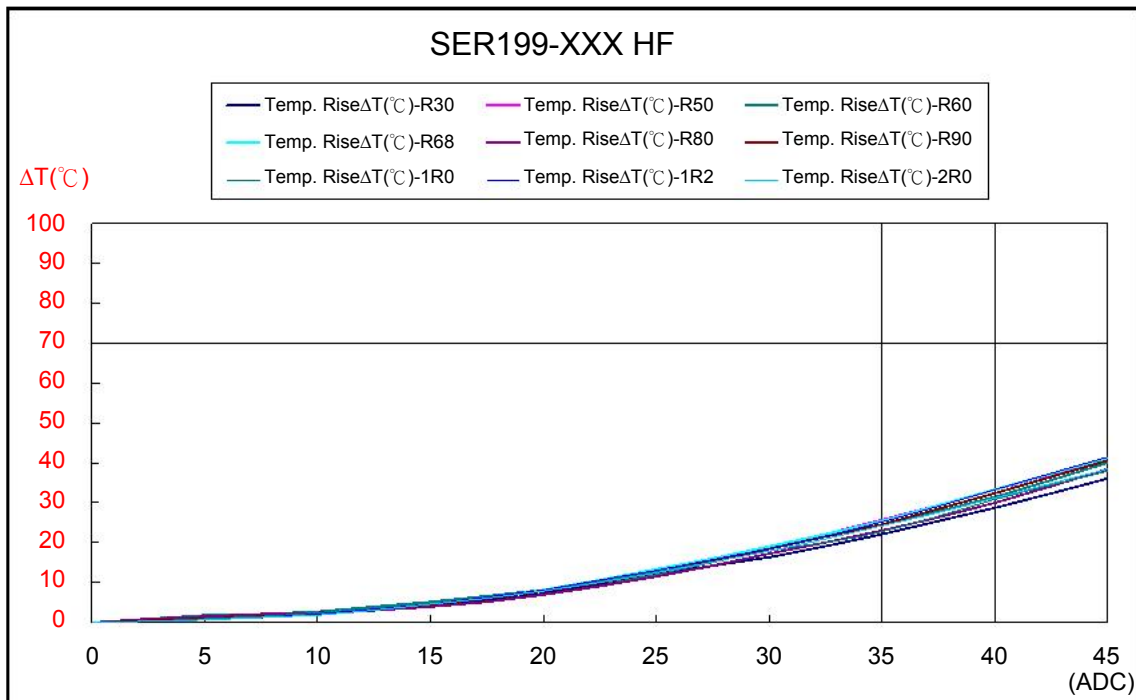
PHYSICAL DIMENSION : (UNIT:mm)



INDUCTANCE VS DC BIAS:



TEMPERATURE RISE VS DC BIAS:



PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",200PCS.
2. TAPE WIDTH:44mm.
3. REEL WIDTH: 50mm
4. COMPONENT PITCH:28mm

SMD HIGH CURRENT INDUCTORS



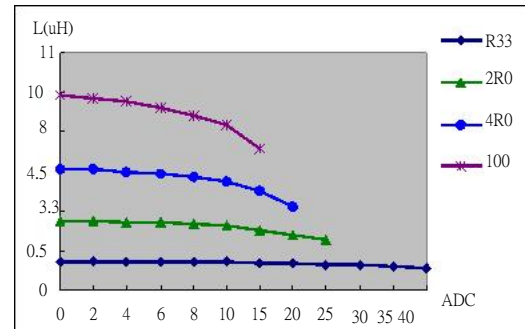
MODEL NO. : SER125 SERIES

FEATURES:

- * DUST CORES ARE USED AT THE TOP PORTION AND NI-ZN FERRITE CORES AT THE BOTTOM PORTION.
- * SUPERIOR QUALITY FOR AN AUTOMATED PRODUCTION LINE.
- * PICK AND PLACE COMPATIBLE.
- * TAPE AND REEL PACKING.
- * COMPLIANT WITH RoHS AND HALOGEN FREE.



INDUCTANCE VS DC BIAS:



APPLICATION :

- * NOTEBOOK COMPUTERS. * VGA CARD.

ELECTRICAL SPECIFICATION:

PART NO	INDUCTANCE (uH) ±20% @ ADC	INDUCTANCE (uH) TYP	TEMPERATURE RISE CURRENT (ADC)	INDUCTANCE (uH) TYP	SATURATION CURRENT (ADC) (NOTE 3)	DCR MAX (mΩ)
SER125-R33K	0.33	0.302	30	0.315	35	0.85
SER125-2R0K	2.0	1.81	20	1.88	22	2.6
SER125-4R0K	4.0	3.77	11	3.85	13.5	6.05
SER125-100K	10.0	9.2	8	9.6	11	7.1

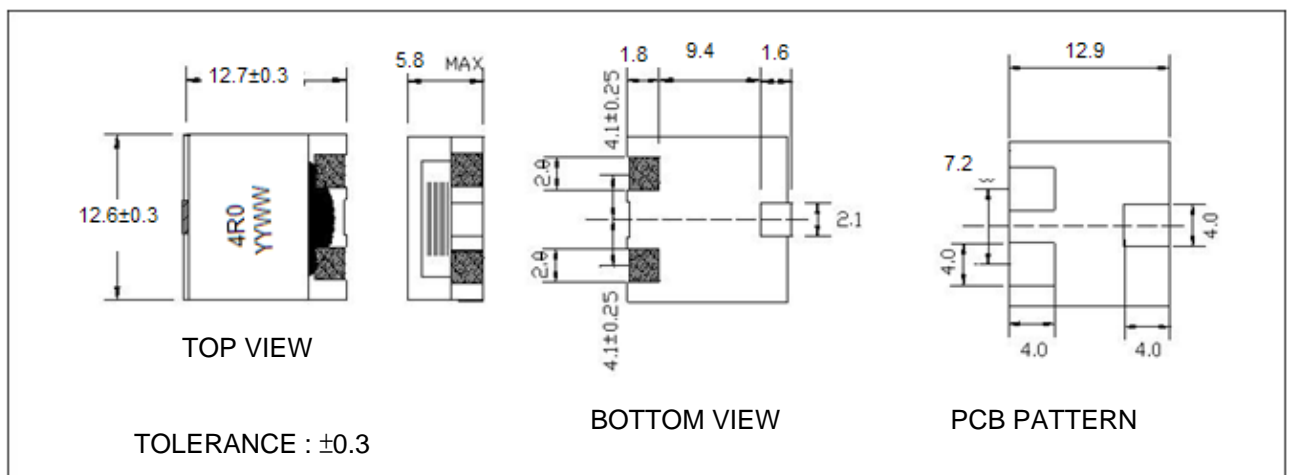
NOTE(1): Test frequency: 100 KHZ,1Vrms.

NOTE(2): ΔT=40°C approximately under the temperature rise current.

NOTE(3): The saturation current indicates the value of DC current is approximately 25% lower than its initial value of inductance.

NOTE(4): Operating temperature range: -40°C ~ +150°C

PHYSICAL DIMENSION : (UNIT:mm)



PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",500PCS.
2. TAPE WIDTH:24mm.
3. REEL WIDTH:29.5mm
4. COMPONENT PITCH:16mm

SMD POWER INDUCTORS



MODEL NO. : SDRS103 SERIES

FEATURES:

- * LOW PROFILE, HIGH POWER, LOW DCR .
- * CLOSED MAGNETIC CIRCUIT CONSTRUCTION FOR HIGH DENSITY BOARD ASSEMBLY .
- * COMPACT SIZE WITH HIGH PERFORMANCE CORE STRUCTURE.
- * CUSTOM DESIGNS AVAILABLE.
- * COMPLIANT WITH RoHS AND HALOGEN FREE.



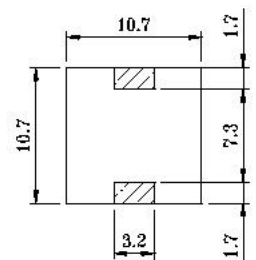
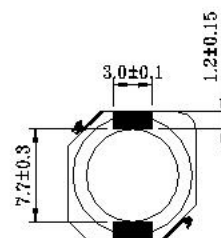
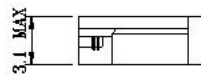
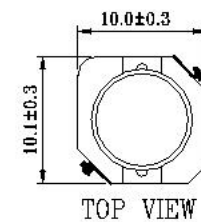
APPLICATION :

- * NOTEBOOK COMPUTERS.
- * DC-DC CONVERTORS.
- * DC-AC INVERTERS.
- * VGA CARD.
- * INDUCTOR FOR GENERAL PURPOSE AVAILABLE.

ELECTRICAL SPECIFICATION:

PART NO	INDUCTANCE (uH±30%)	DCR MAX (mΩ)	SATURATION CURRENT (ADC) (NOTE 3)	TEMPERATURE RISE CURRENT (ADC) MAX
SDRS103-0R8	0.8	5.7	11.2	8.30
SDRS103-1R5	1.5	11	8.0	5.80
SDRS103-2R2	2.2	16.9	6.7	5.10
SDRS103-3R3	3.3	21	5.56	4.70
SDRS103-4R7	4.7	30	4.65	4.00
SDRS103-6R8	6.8	35	3.84	3.60
SDRS103-8R2	8.2	50	3.54	3.00
SDRS103-100	10	59	3.00	2.80
SDRS103-150	15	91	2.60	2.05
SDRS103-220	22	143	2.16	1.60
SDRS103-330	33	202	1.74	1.35
SDRS103-470	47	299	1.43	1.20
SDRS103-560	56	325	1.36	1.15
SDRS103-680	68	429	1.22	0.95
SDRS103-820	82	494	1.14	0.80
SDRS103-101	100	683	1.02	0.70
SDRS103-121	120	754	0.89	0.65
SDRS103-151	150	871	0.84	0.51

PHYSICAL DIMENSION : (UNIT:mm)



BOTTOM VIEW

PCB PATTERN

TOLERANCE:±0.3

NOTE (1): Test frequency: 100 KHz,1Vrms.

NOTE (2): ΔT:40°C approximately under the temperature rise current.

NOTE (3): The saturation current indicates the value of DC current is approximately 35% lower than its initial value of inductance.

NOTE(4): Operating temperature range: -30°C ~+85°C.

PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",1200PCS.
2. TAPE WIDTH:24mm.
3. REEL WIDTH:29.5mm.
4. COMPONENT PITCH:16mm

SMD POWER INDUCTORS



MODEL NO. : SDRH125 SERIES

FEATURES:

- * SUPERIOR QUALITY FOR AN AUTOMATED PRODUCTION LINE.
- * PICK AND PLACE COMPATIBLE.
- * TAPE AND REEL PACKING.
- * COMPLIANT WITH RoHS AND HALOGEN FREE.



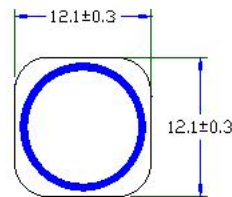
APPLICATION :

- * NOTEBOOK COMPUTERS.
- * DC-DC CONVERTORS.
- * DC-AC INVERTERS.

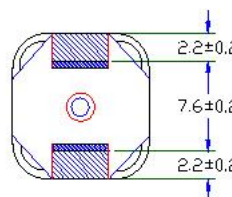
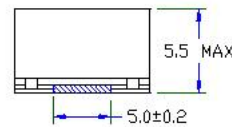
ELECTRICAL SPECIFICATION:

PART NO	INDUCTANCE (uH)	DCR MAX (Ω)	RATED CURRENT (ADC)
SDRH125-2R2M	2.2	0.009	11.0
SDRH125-2R7M	2.7	0.011	10.0
SDRH125-3R3 M	3.3	0.013	9.0
SDRH125-4R7 M	4.7	0.015	8.0
SDRH125-5R6 M	5.6	0.017	7.2
SDRH125-6R8 M	6.8	0.019	6.8
SDRH125-8R2M	8.2	0.024	6.1
SDRH125-100 M	10	0.025	5.8
SDRH125-470M	47	0.105	2.5

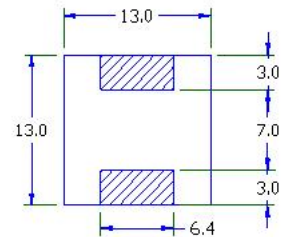
PHYSICAL DIMENSION : (UNIT:mm)



TOP VIEW



BOTTOM VIEW



PCB PATTERN

TOLERANCE : ±0.3

NOTE (1): Test frequency: 100 kHz, 1 Vrms.

NOTE (2): 2.2uH~47uH: ±20%

NOTE (3): The rated current indicates the value of DC current is approximately 25% lower than its initial value of inductance and $\Delta T=40^{\circ}\text{C}$ approximately.

NOTE(4): Operating temperature range: $-30^{\circ}\text{C} \sim +85^{\circ}\text{C}$.

PACKAGING SPEC:

1. REEL SIZE & UNITS PER REEL :13",500PCS.
2. TAPE WIDTH:24mm.
3. REEL WIDTH:29.5mm.
4. COMPONENT PITCH:16mm

Common mode choke coils (AC & DC)



MODEL NO. : UT19 SERIES

◆ FEATURES:

- * High inductance was achieved by the ferrite mixing and the baking technology that developed originally
- * Small size, low leakage flux due to OSQ core.
- * High attenuation to the normal mode noise.
- * Low stray capacitance, High attenuation of a wide frequency band.
- * There is no danger of the layer short for the single-layer rolling.



◆ APPLICATION :

- * Field of LCD .
- * Main board.
- * Power system.

◆ ELECTRICAL SPECIFICATION:

- * Rated Voltage : AC/DC250V
- * Withstanding Voltage: AC2400V 2sec
- * Insulation Resistance:DC500V,100M Ω

Part Name	Shape	Inductance (mH) Min	Rated current (A) Max	DCR (m Ω) Max	Dimension					
	Fig				A max	B max	C max	L	P1	P2
UT19-602	1	6.0	3.0	100	25.5	32.5	12.5	/	17.4	30
UT19-123		12.0	2.0	115	25.5	32.5	12.5	/	17.4	30
UT19-223		22.0	1.5	159	25.5	32.5	12.5	/	17.4	30
UT19-602	2	6.0	3.0	100	35	27	11.5	3.5	24.5	22.5
UT19-123		12.0	2.0	115	35	27	11.5	3.5	24.5	22.5
UT19-223		22.0	1.5	159	35	27	11.5	3.5	24.5	22.5

NOTE(1) : Test frequency: 10 KHz,1Vrms.

NOTE(2) : $\Delta T=40^{\circ}\text{C}$ approximately under the temperature rise current.

NOTE(3) : Operating temperature range: $-25^{\circ}\text{C}\sim+125^{\circ}\text{C}$.

◆ PHYSICAL DIMENSION : (UNIT:mm)

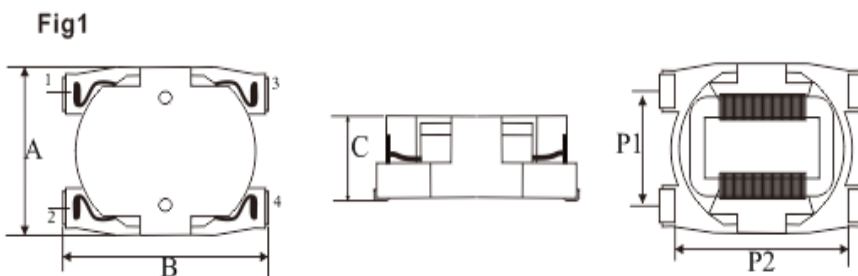
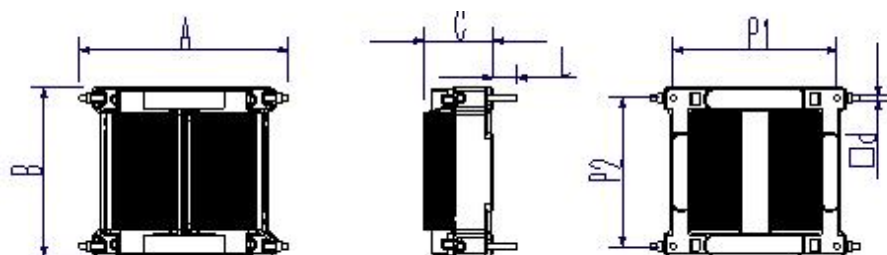
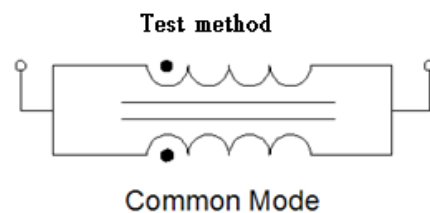
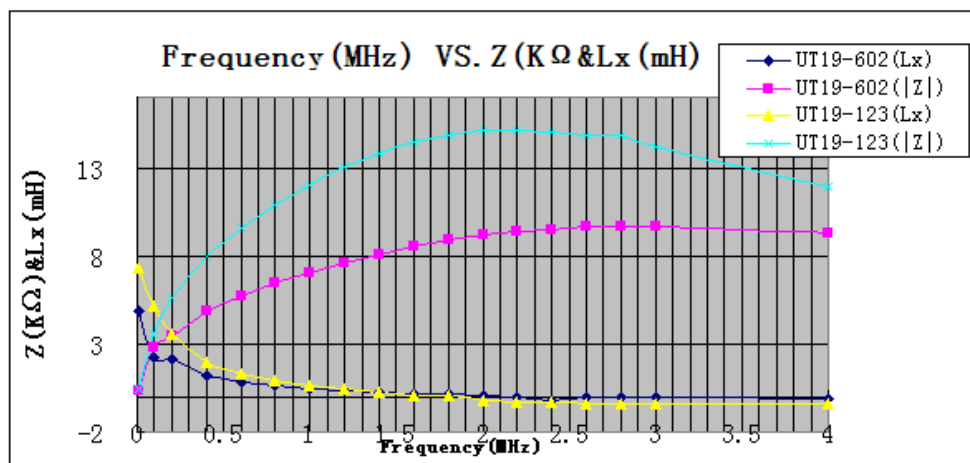
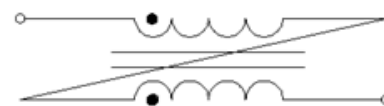
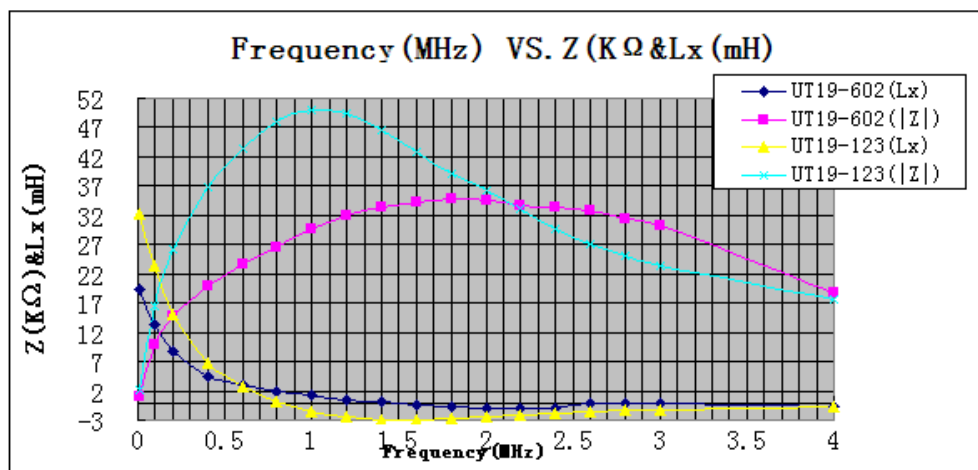


Fig.2



Frequency(MHz) VS.Z(KΩ):



PACKAGING SPEC:

1. SMD Series :REEL SIZE & UNITS PER REEL :13",120PCS.
2. TAPE WIDTH:56mm.
3. REEL WIDTH:29.5mm.
4. COMPONENT PITCH:32mm

● **FEATURES 特性**

Various high power inductors are superior to be high saturation for surface mounting.
 具有高功率、高饱和电流、低阻抗、小型化之特性。

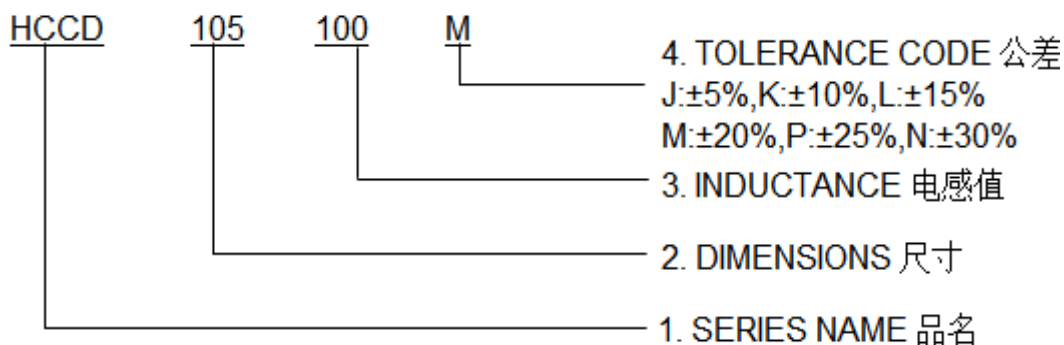


● **APPLICATIONS 用途**

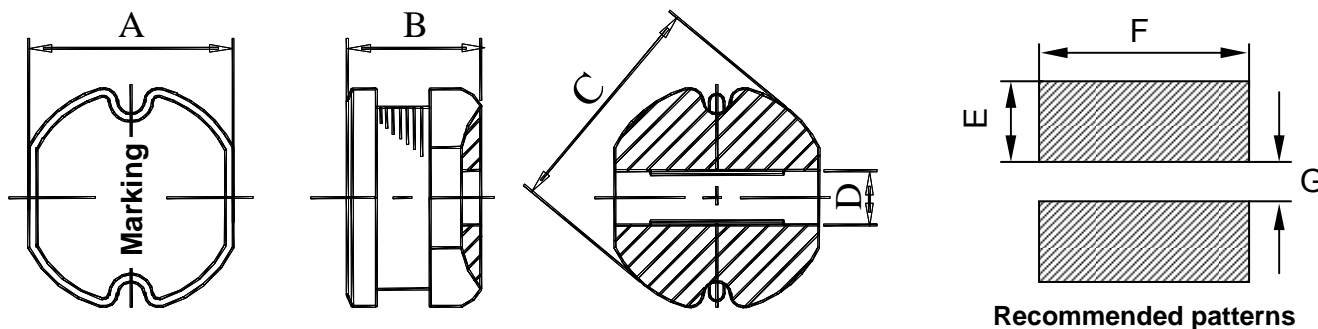
Power supply for TVR,OA equipment Digital camera,LCD television set notebook PC,
 portable communication equipments,DC/DC converters,etc.

录影机, OA仪器, 数码相机, 液晶电视, 笔记本电脑, 小型通信设备, DC/DC转换器。

● **PART NUMBERING SYSTEM 品名系统**



● **SHAPES AND DIMENSIONS 外形尺寸 (Unit:mm)**



TYPE(型号)	A	B	C	D	E	F	G
HCCD31	3.0±0.3	1.1±0.3	3.5±0.3	1.0	1.6	3.5	0.8
HCCD32	3.0±0.3	2.1±0.3	3.5±0.3	1.0	1.6	3.5	0.8
HCCD42	4.0±0.3	2.1±0.3	4.5±0.3	1.0	1.75	4.5	1.2
HCCD43	4.0±0.3	3.2±0.3	4.5±0.3	1.4	1.75	4.5	1.2
HCCD52	5.2±0.3	2.1±0.3	5.8±0.3	2.1	2.15	5.5	1.7
HCCD53	5.2±0.3	3.0±0.3	5.8±0.3	2.1	2.15	5.5	1.7
HCCD54	5.2±0.3	4.5±0.3	5.8±0.3	2.1	2.15	5.5	1.7
HCCD73	7.0±0.3	3.5±0.3	7.8±0.3	2.4	3.0	7.5	2.0
HCCD75	7.0±0.3	5.0±0.3	7.8±0.3	2.5	3.0	7.5	2.0
HCCD104	9.0±0.3	4.0±0.3	10.0±0.3	3.1	3.75	9.5	2.5
HCCD105	9.0±0.3	5.4±0.3	10.0±0.3	3.1	3.75	9.5	2.5

● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (Max) (Ω) 直流电阻	IDC (Max) (A) 额定电流	TEST FREQ (kHz) 测试频率
HCCD31-R33M	0.33	0.650	0.450	100
HCCD31-R47M	0.47	0.720	0.320	100
HCCD31-R56M	0.56	0.854	0.200	100
HCCD31-R68M	0.68	0.930	0.190	100
HCCD31-R82M	0.82	1.022	0.185	100
HCCD31-100M	10.0	1.150	0.180	100
HCCD31-120M	12.0	1.280	0.175	100
HCCD31-150M	15.0	1.320	0.172	100
HCCD31-180M	18.0	1.450	0.170	100
HCCD31-220M	22.0	1.550	0.162	100
HCCD31-250M	25.0	1.620	0.160	100
HCCD31-330M	33.0	1.700	0.150	100
HCCD31-470M	47.0	1.750	0.150	100
HCCD31-560M	56.0	1.820	0.145	100
HCCD31-680M	68.0	1.880	0.142	100
HCCD31-820M	82.0	1.920	0.140	100
HCCD31-101M	100	2.000	0.138	100
HCCD31-221M	220	2.100	0.136	1MHz
HCCD31-331M	330	2.180	0.132	1MHz
HCCD31-391M	390	2.450	0.130	1MHz

Remark: ● Tolerance: N:±30% , M:±20% , K:±10%

● Inductance Tested : 0.33uH~100uH at 100kHz,0.25Vrms , 220uH~390uH at 1MHz/0.25V (20°C)

● IDC: DC current at which the inductance drops approximate 20% from its value without current

● Operating Temperature : -25°C ~ +105°C

● Measure Equipment:

INDUCTANCE : Agilent HP-4284A , HP-4285A

IDC : Agilent HP-4284A+HP-42841A

DCR : CHEN HWA 502A

● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (Max) (Ω) 直流电阻	IDC (Max) (A) 额定电流	TEST FREQ (kHz) 测试频率
HCCD32-1R0M	1.0	0.045	2.20	100
HCCD32-1R2M	1.2	0.055	2.00	100
HCCD32-1R5M	1.5	0.055	1.80	100
HCCD32-1R8M	1.8	0.09	1.70	100
HCCD32-2R2M	2.2	0.09	1.60	100
HCCD32-2R7M	2.7	0.10	1.58	100
HCCD32-3R3M	3.3	0.11	1.40	100
HCCD32-4R7M	4.7	0.15	1.30	100
HCCD32-5R6M	5.6	0.20	1.20	100
HCCD32-6R8M	6.8	0.22	1.10	100
HCCD32-8R2M	8.2	0.24	1.00	100
HCCD32-100M	10.0	0.27	0.90	100
HCCD32-150M	15.0	0.42	0.70	100
HCCD32-220M	22.0	0.68	0.60	100
HCCD32-270M	27.0	0.80	0.50	100
HCCD32-330M	33.0	0.80	0.45	100
HCCD32-39M	39.0	1.00	0.40	100
HCCD32-470M	47.0	1.20	0.30	100
HCCD32-560M	56.0	1.40	0.28	100
HCCD32-680M	68.0	1.80	0.25	100
HCCD32-820M	82.0	2.10	0.22	100
HCCD32-101M	100	2.40	0.20	100
HCCD32-221M	220	6.00	0.15	1MHz
HCCD32-331M	330	8.00	0.15	1MHz
HCCD32-561M	560	14.40	0.10	1MHz
HCCD32-681M	680	23.00	0.10	1MHz

Remark: ● □ Tolerance: N:±30% , M:±20% , K:±10%

- Inductance Tested : 1uH~100uH at 100kHz,0.25Vrms , 220uH~680uH at 1MHz/0.25V (20°C)
- IDC: DC current at which the inductance drops approximate 20% from its value without current
- Operating Temperature : -25°C ~ +105°C
- Measure Equipment:
 - INDUCTANCE : Agilent HP-4284A , HP-4285A
 - IDC : Agilent HP-4284A+HP-42841A
 - DCR : CHEN HWA 502A

● SPECIFICATION TABLE:				
PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (Max) (Ω) 直流电阻	IDC (Max) (A) 额定电流	TEST FREQ (kHz) 测试频率
HCCD42-2R2M	2.2	0.060	2.00	100
HCCD42-3R3M	3.3	0.080	2.00	100
HCCD42-4R7M	4.7	0.120	1.50	100
HCCD42-5R6M	5.6	0.140	1.40	100
HCCD42-6R8M	6.8	0.170	1.30	100
HCCD42-8R2M	8.2	0.200	1.20	100
HCCD42-100M	10.0	0.220	1.00	100
HCCD42-150M	15.0	0.290	0.90	100
HCCD42-220M	22.0	0.410	0.80	100
HCCD42-270M	27.0	0.520	0.65	100
HCCD42-330M	33.0	0.590	0.60	100
HCCD42-390M	39.0	0.710	0.55	100
HCCD42-470M	47.0	0.840	0.50	100
HCCD42-560M	56.0	1.220	0.45	100
HCCD42-680M	68.0	1.400	0.40	100
HCCD42-820M	82.0	1.560	0.35	100
HCCD42-101M	100	1.990	0.30	100
HCCD42-121M	120	2.300	0.15	1MHz
HCCD42-331M	330	3.600	0.10	1MHz

Remark: ● Tolerance: N:±30% , M:±20% , K:±10%

- Inductance Tested : 1uH~100uH at 100kHz,0.25Vrms , 120uH~330uH at 1MHz/0.25V (20°C)
- IDC: DC current at which the inductance drops approximate 20% from its value without current
- Operating Temperature : -25°C ~ +105°C
- Measure Equipment:
 - INDUCTANCE : Agilent HP-4284A , HP-4285A
 - IDC : Agilent HP-4284A+HP-42841A
 - DCR : CHEN HWA 502A

● SPECIFICATION TABLE:				
PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (Max) (Ω) 直流电阻	IDC (Max) (A) 额定电流	TEST FREQ (kHz) 测试频率
HCCD43-1R0M	1.0	0.025	3.00	100
HCCD43-1R2M	1.2	0.025	2.90	100
HCCD43-1R5M	1.5	0.038	2.85	100
HCCD43-1R8M	1.8	0.030	2.80	100
HCCD43-2R2M	2.2	0.045	2.50	100
HCCD43-3R3M	3.3	0.055	2.10	100
HCCD43-4R7M	4.7	0.075	1.80	100
HCCD43-5R6M	5.6	0.090	1.70	100
HCCD43-6R8M	6.8	0.10	1.50	100
HCCD43-8R2M	8.2	0.13	1.30	100
HCCD43-100M	10.0	0.14	1.20	100
HCCD43-150M	15.0	0.23	1.00	100
HCCD43-180M	18.0	0.25	0.90	100
HCCD43-220M	22.0	0.26	0.80	100
HCCD43-270M	27.0	0.33	0.75	100
HCCD43-330M	33.0	0.42	0.70	100
HCCD43-390M	39.0	0.50	0.65	100
HCCD43-470M	47.0	0.58	0.55	100
HCCD43-560M	56.0	0.70	0.50	100
HCCD43-680M	68.0	0.85	0.48	100
HCCD43-820M	82.0	1.00	0.45	100
HCCD43-101M	100	1.30	0.30	100
HCCD43-151M	150	1.70	0.25	1MHz
HCCD43-221M	220	2.70	0.16	1MHz
HCCD43-681M	680	9.70	0.15	1MHz
HCCD43-102K	1000	13.00	0.08	1MHz

Remark: ● □ Tolerance: N:±30% , M:±20% , K:±10%

- Inductance Tested : 1uH~100uH at 100kHz,0.25Vrms , 150uH~1000uH at 1MHz/0.25V (20°C)
- IDC: DC current at which the inductance drops approximate 20% from its value without current
- Operating Temperature : -25°C ~ +105°C
- Measure Equipment:
 - INDUCTANCE : Agilent HP-4284A , HP-4285A
 - IDC : Agilent HP-4284A+HP-42841A
 - DCR : CHEN HWA 502A



SMD POWER INDUCTORS

● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (Max) (Ω) 直流电阻	IDC (Max) (A) 额定电流	TEST FREQ (kHz) 测试频率
HCCD52-2R2M	2.2	0.050	2.40	100
HCCD52-3R3M	3.3	0.065	2.20	100
HCCD52-4R7M	4.7	0.090	2.00	100
HCCD52-5R6M	5.6	0.120	1.80	100
HCCD52-6R8M	6.8	0.130	1.60	100
HCCD52-8R2M	8.2	0.150	1.50	100
HCCD52-100M	10.0	0.180	1.40	100
HCCD52-150M	15.0	0.270	1.20	100
HCCD52-220M	22.0	0.320	1.00	100
HCCD52-270M	27.0	0.390	1.00	100
HCCD52-330M	33.0	0.470	0.90	100
HCCD52-390M	39.0	0.560	0.80	100
HCCD52-470M	47.0	0.610	0.50	100
HCCD52-680M	68.0	0.970	0.60	100
HCCD52-101M	100	1.550	0.50	100
HCCD52-221M	220	3.000	0.25	100

Remark: ● □ Tolerance: N:±30% , M:±20% , K:±10%

- Inductance Tested at 100kHz,0.25Vrms (20°C)
- IDC: DC current at which the inductance drops approximate 20% from its value without current
- Operating Temperature : -25°C ~ +105°C
- Measure Equipment:
 INDUCTANCE : Agilent HP-4284A , HP-4285A
 IDC : Agilent HP-4284A+HP-42841A
 DCR : CHEN HWA 502A

● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (Max) (Ω) 直流电阻	IDC (Max) (A) 额定电流	TEST FREQ (kHz) 测试频率
HCCD53-1R5M	1.5	0.035	3.10	100
HCCD53-2R2M	2.2	0.040	3.00	100
HCCD53-2R7M	2.7	0.047	2.90	100
HCCD53-3R3M	3.3	0.055	2.80	100
HCCD53-3R9M	3.9	0.055	2.70	100
HCCD53-4R7M	4.7	0.070	2.60	100
HCCD53-5R6M	5.6	0.080	2.50	100
HCCD53-6R8M	6.8	0.090	2.40	100
HCCD53-8R2M	8.2	0.110	2.30	100
HCCD53-100M	10.0	0.130	2.20	100
HCCD53-150M	15.0	0.180	2.00	100
HCCD53-220M	22.0	0.260	1.60	100
HCCD53-270M	27.0	0.280	1.40	100
HCCD53-330M	33.0	0.380	1.30	100
HCCD53-390M	39.0	0.440	1.20	100
HCCD53-470M	47.0	0.490	0.90	100
HCCD53-560M	56.0	0.550	0.85	100
HCCD53-680M	68.0	0.680	0.80	100
HCCD53-820M	82.0	0.860	0.80	100
HCCD53-101M	100	0.960	0.70	100
HCCD53-221M	220	2.100	0.30	100
HCCD53-271M	270	2.500	0.28	100
HCCD53-331M	330	4.000	0.25	100
HCCD53-681M	680	8.000	0.18	100
HCCD53-102K	1000	11.500	0.14	100

Remark: ● Tolerance: N:±30% , M:±20% , K:±10%

- Inductance Tested at 100kHz,0.25Vrms (20°C)
- IDC: DC current at which the inductance drops approximate 20% from its value without current
- Operating Temperature : -25°C ~ +105°C
- Measure Equipment:

INDUCTANCE : Agilent HP-4284A , HP-4285A

IDC : Agilent HP-4284A+HP-42841A

DCR : CHEN HWA 502A

● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (Max) (Ω) 直流电阻	IDC (Max) (A) 额定电流	TEST FREQ (kHz) 测试频率
HCCD54-1R0M	1.0	0.013	4.60	100
HCCD54-1R2M	1.2	0.015	4.50	100
HCCD54-1R5M	1.5	0.020	4.00	100
HCCD54-2R2M	2.2	0.026	3.50	100
HCCD54-3R3M	3.3	0.035	3.00	100
HCCD54-4R7M	4.7	0.045	2.80	100
HCCD54-5R6M	5.6	0.050	2.70	100
HCCD54-6R8M	6.8	0.060	2.50	100
HCCD54-8R2M	8.2	0.070	2.20	100
HCCD54-100M	10.0	0.080	2.00	100
HCCD54-150M	15.0	0.120	1.80	100
HCCD54-220M	22.0	0.150	1.20	100
HCCD54-270M	27.0	0.160	1.10	100
HCCD54-330M	33.0	0.200	1.00	100
HCCD54-390M	39.0	0.260	0.90	100
HCCD54-470M	47.0	0.340	0.85	100
HCCD54-560M	56.0	0.380	0.80	100
HCCD54-680M	68.0	0.440	0.60	100
HCCD54-820M	82.0	0.500	0.60	100
HCCD54-101M	100	0.660	0.50	100
HCCD54-121M	120	0.850	0.45	100
HCCD54-221M	220	1.500	0.25	100
HCCD54-271M	270	1.800	0.23	100
HCCD54-331M	330	2.500	0.30	100
HCCD54-471M	470	3.400	0.30	100
HCCD54-102K	1000	5.440	0.12	100

Remark: ● Tolerance: N:±30% , M:±20% , K:±10%

- Inductance Tested at 100kHz,0.25Vrms (20°C)
- IDC: DC current at which the inductance drops approximate 20% from its value without current
- Operating Temperature : -25°C ~ +105°C
- Measure Equipment:
 INDUCTANCE : Agilent HP-4284A , HP-4285A
 IDC : Agilent HP-4284A+HP-42841A
 DCR : CHEN HWA 502A

● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (Max) (Ω) 直流电阻	IDC (Max) (A) 额定电流	TEST FREQ (kHz) 测试频率
HCCD73-1R5M	1.5	0.015	5.00	100
HCCD73-2R2M	2.2	0.015	4.50	100
HCCD73-3R3M	3.3	0.035	3.50	100
HCCD73-4R7M	4.7	0.040	3.20	100
HCCD73-5R6M	5.6	0.050	3.00	100
HCCD73-6R8M	6.8	0.055	2.50	100
HCCD73-8R2M	8.2	0.060	2.30	100
HCCD73-100M	10.0	0.080	2.00	100
HCCD73-150M	15.0	0.110	1.80	100
HCCD73-220M	22.0	0.140	1.60	100
HCCD73-270M	27.0	0.180	1.40	100
HCCD73-330M	33.0	0.210	1.30	100
HCCD73-390M	39.0	0.220	1.20	100
HCCD73-470M	47.0	0.230	1.10	100
HCCD73-560M	56.0	0.350	1.00	100
HCCD73-680M	68.0	0.370	0.90	100
HCCD73-820M	82.0	0.390	0.80	100
HCCD73-101M	100	0.530	0.70	100
HCCD73-221M	220	0.990	0.50	100
HCCD73-331M	330	1.580	0.40	100
HCCD73-471M	470	2.100	0.30	100

Remark: ● □ Tolerance: N:±30% , M:±20% , K:±10%

- Inductance Tested at 100kHz,0.25Vrms (20°C)
- IDC: DC current at which the inductance drops approximate 20% from its value without current
- Operating Temperature : -25°C ~ +105°C
- Measure Equipment:
 - INDUCTANCE : Agilent HP-4284A , HP-4285A
 - IDC : Agilent HP-4284A+HP-42841A
 - DCR : CHEN HWA 502A

● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (Max) (Ω) 直流电阻	IDC (Max) (A) 额定电流	TEST FREQ (kHz) 测试频率
HCCD75-1R0M	1.0	0.012	5.50	100
HCCD75-1R5M	1.5	0.015	5.30	100
HCCD75-2R2M	2.2	0.020	5.00	100
HCCD75-3R3M	3.3	0.028	4.50	100
HCCD75-4R7M	4.7	0.033	4.00	100
HCCD75-5R6M	5.6	0.036	3.80	100
HCCD75-6R8M	6.8	0.040	3.50	100
HCCD75-8R2M	8.2	0.050	3.00	100
HCCD75-100M	10.0	0.060	2.80	100
HCCD75-150M	15.0	0.070	2.70	100
HCCD75-180M	18.0	0.090	2.30	100
HCCD75-220M	22.0	0.100	2.20	100
HCCD75-270M	27.0	0.120	2.00	100
HCCD75-330M	33.0	0.150	1.50	100
HCCD75-390M	39.0	0.170	1.40	100
HCCD75-470M	47.0	0.190	1.20	100
HCCD75-560M	56.0	0.220	1.10	100
HCCD75-680M	68.0	0.270	1.00	100
HCCD75-820M	82.0	0.300	0.90	100
HCCD75-101M	100	0.380	0.80	100
HCCD75-221M	220	0.750	0.60	100
HCCD75-331M	330	0.830	0.40	100
HCCD75-471M	470	1.90	0.30	100
HCCD75-102K	1000	3.50	0.25	100
HCCD75-122K	1200	4.50	0.23	100
HCCD75-152K	1500	5.50	0.20	100
HCCD75-202K	2200	10.00	0.10	100

Remark: ● □ Tolerance: N:±30% , M:±20% , K:±10%

- Inductance Tested at 100kHz,0.25Vrms (20°C)
- IDC: DC current at which the inductance drops approximate 20% from its value without current
- Operating Temperature : -25°C ~ +105°C
- Measure Equipment:
 - INDUCTANCE : Agilent HP-4284A , HP-4285A
 - IDC : Agilent HP-4284A+HP-42841A
 - DCR : CHEN HWA 502A

SMD POWER INDUCTORS

● SPECIFICATION TABLE:				
PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (Max) (Ω) 直流电阻	IDC (Max) (A) 额定电流	TEST FREQ (KHz) 测试频率
HCCD104-100M	10.0	0.050	4.50	100
HCCD104-150M	15.0	0.075	3.50	100
HCCD104-220M	22.0	0.110	3.00	100
HCCD104-270M	27.0	0.120	2.80	100
HCCD104-330M	33.0	0.135	2.50	100
HCCD104-390M	39.0	0.170	2.40	100
HCCD104-470M	47.0	0.180	2.10	100
HCCD104-560M	56.0	0.200	1.90	100
HCCD104-680M	68.0	0.250	1.70	100
HCCD104-820M	82.0	0.300	1.60	100
HCCD104-101M	100	0.390	1.40	100
HCCD104-221M	220	0.800	1.00	100
HCCD104-331M	330	1.130	0.70	100
HCCD104-471M	470	1.600	0.60	100
HCCD104-561M	560	1.900	0.55	100
HCCD104-681M	680	2.280	0.50	100
HCCD104-821M	820	2.760	0.45	100
HCCD104-102K	1000	3.450	0.40	100

Remark: ● □ Tolerance: N:±30% , M:±20% , K:±10%

- Inductance Tested at 100KHz,0.25Vrms (20°C)
- IDC: DC current at which the inductance drops approximate 20% from its value without current
- Operating Temperature : -25°C ~ +105°C
- Measure Equipment:
 INDUCTANCE : Agilent HP-4284A , HP-4285A
 IDC : Agilent HP-4284A+HP-42841A
 DCR : CHEN HWA 502A

SMD POWER INDUCTORS

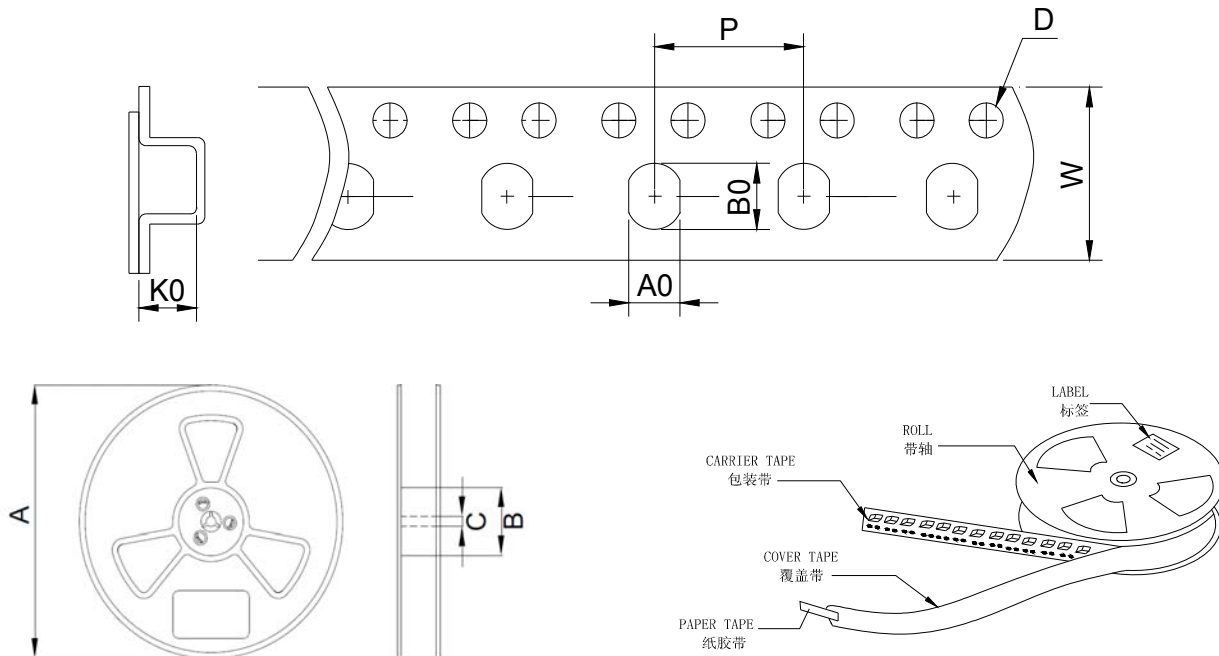
● SPECIFICATION TABLE:				
PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (Max) (Ω) 直流电阻	IDC (Max) (A) 额定电流	TEST FREQ (KHz) 测试频率
HCCD105-3R3M	3.3	0.020	6.00	100
HCCD105-4R7M	4.7	0.028	5.00	100
HCCD105-6R8M	6.8	0.030	4.50	100
HCCD105-100M	10.0	0.040	4.00	100
HCCD105-150M	15.0	0.060	3.00	100
HCCD105-220M	22.0	0.075	2.50	100
HCCD105-270M	27.0	0.095	2.20	100
HCCD105-330M	33.0	0.120	2.10	100
HCCD105-390M	39.0	0.125	2.00	100
HCCD105-470M	47.0	0.140	1.80	100
HCCD105-560M	56.0	0.170	1.60	100
HCCD105-680M	68.0	0.220	1.50	100
HCCD105-820M	82.0	0.240	1.40	100
HCCD105-101M	100	0.280	1.20	100
HCCD105-181M	180	0.500	0.90	100
HCCD105-221M	220	0.550	0.80	100
HCCD105-331M	330	0.830	0.65	100
HCCD105-471M	470	1.200	0.55	100
HCCD105-561M	560	1.360	0.50	100
HCCD105-681M	680	1.630	0.45	100
HCCD105-821M	820	2.160	0.40	100
HCCD105-102K	1000	2.500	0.35	100
HCCD105-122K	1200	3.300	0.30	100
HCCD105-182K	1800	4.800	0.18	100

Remark: ● □ Tolerance: N:±30% , M:±20% , K:±10%

- Inductance Tested at 100KHz,0.25Vrms (20℃)
- IDC: DC current at which the inductance drops approximate 20% from its value without current
- Operating Temperature : -25℃ ~ +105℃
- Measure Equipment:
 - INDUCTANCE : Agilent HP-4284A , HP-4285A
 - IDC : Agilent HP-4284A+HP-42841A
 - DCR : CHEN HWA 502A

SMD POWER INDUCTORS

● PACKAGING SPECIFICATION :



Type	Tape Dimension						Reel Dimension			Quantity (Pcs/Reel)
	W	A0	B0	K0	D	P	A	B	C	
HCCD31	12.0	3.2	3.6	1.6	1.5	8.0	330	100	13	4000
HCCD32	12.0	3.3	3.8	2.5	1.5	8.0	330	100	13	3000
HCCD42	12.0	4.3	4.8	2.6	1.5	8.0	330	100	13	3000
HCCD43	12.0	4.2	4.8	3.5	1.5	8.0	330	100	13	2000
HCCD52	12.0	5.5	6.1	2.7	1.5	8.0	330	100	13	3000
HCCD53	12.0	5.5	6.1	3.6	1.5	8.0	330	100	13	2000
HCCD54	12.0	5.6	6.3	5.2	1.5	8.0	330	100	13	1500
HCCD73	16.0	7.4	8.5	3.8	1.5	12.0	330	100	13	1000
HCCD75	16.0	7.6	8.6	5.6	1.5	12.0	330	100	13	1000
HCCD104	24.0	9.1	10.1	4.8	1.5	12.0	330	100	13	1000
HCCD105	24.0	9.1	10.1	6.1	1.5	12.0	330	100	13	1000

SMD POWER INDUCTORS

● FEATURES 特性

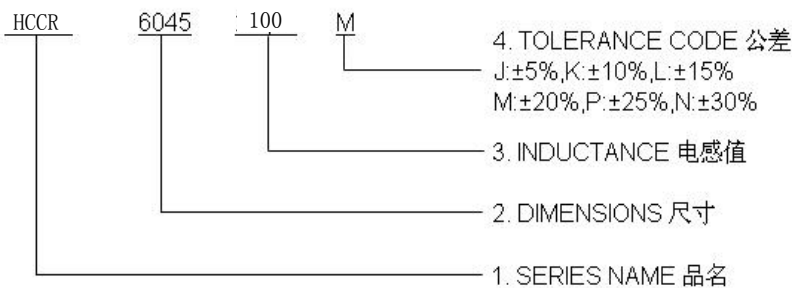
1. Small and very Thin inductor 小型,超薄电感器
2. Magnetic-resin shielded construction reduces buzz noise to ultra-low levels
磁性胶水涂敷结构极大减少了蜂鸣声
3. Takes up less PCB real estate and save more power 省空间,更省电



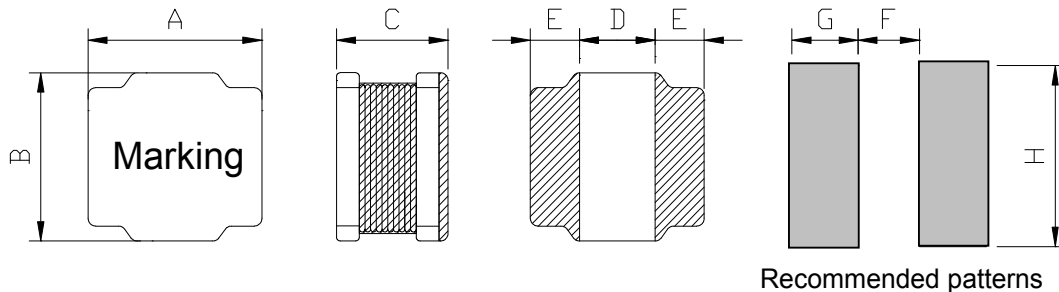
● APPLICATIONS 用途

1. LED Lighting LED 照明
2. Automotive systems 汽车产品
3. Notebooks,desktop computers,servers,graphic cards 笔记本电脑,台式电脑,服务器,显卡

● PART NUMBERING SYSTEM 品名系统



● SHAPES AND DIMENSIONS 外形尺寸 (Unit:mm)



TYPE(型号)	A	B	C	D	E	F	G	H
HCCR252010	2.5±0.1	2.0±0.1	1.0Max	0.8±0.2	0.8±0.2	0.8	0.85	2.0
HCCR252012	2.5±0.1	2.0±0.1	1.2Max	0.8±0.2	0.8±0.2	0.8	0.85	2.0
HCCR3010	3.0±0.2	3.0±0.2	1.0Max	1.5±0.2	0.75±0.2	1.5	0.8	2.7
HCCR3012	3.0±0.2	3.0±0.2	1.2Max	1.5±0.2	0.75±0.2	1.5	0.8	2.7
HCCR3015	3.0±0.2	3.0±0.2	1.5Max	1.5±0.2	0.75±0.2	1.5	0.8	2.7
HCCR4012	4.0±0.2	4.0±0.2	1.2Max	1.6±0.2	1.2±0.2	1.5	1.3	3.7
HCCR4018	4.0±0.2	4.0±0.2	1.8Max	1.6±0.2	1.2±0.2	1.5	1.3	3.7
HCCR4020	4.0±0.2	4.0±0.2	2.0Max	1.6±0.2	1.2±0.2	1.5	1.3	3.7
HCCR4030	4.0±0.2	4.0±0.2	3.0Max	1.6±0.2	1.2±0.2	1.5	1.3	3.7
HCCR5020	5.0±0.2	5.0±0.2	2.0Max	2.0±0.2	1.5±0.2	2.3	1.4	4.2
HCCR5040	5.0±0.2	5.0±0.2	4.0Max	2.0±0.2	1.5±0.2	2.3	1.4	4.2
HCCR6020	6.0±0.3	6.0±0.3	2.0Max	2.6±0.3	1.7±0.3	2.4	1.8	5.7
HCCR6028	6.0±0.3	6.0±0.3	2.8Max	2.6±0.3	1.7±0.3	2.4	1.8	5.7
HCCR6045	6.0±0.3	6.0±0.3	4.7Max	2.6±0.3	1.7±0.3	2.4	1.8	5.7
HCCR8040	8.0±0.3	8.0±0.3	4.2Max	3.8±0.3	2.1±0.3	3.8	2.2	7.5



SMD POWER INDUCTORS

● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (Max.) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
HCCR252010-R47N	0.47 \pm 30%	0.056	2.50	2.35	206
HCCR252010-R68N	0.68 \pm 30%	0.074	2.20	2.00	129
HCCR252010-1R0N	1.0 \pm 30%	0.108	1.85	1.65	100
HCCR252010-1R5N	1.5 \pm 30%	0.182	1.80	1.30	81
HCCR252010-2R2N	2.2 \pm 30%	0.209	1.20	1.20	61
HCCR252010-3R3M	3.3 \pm 20%	0.328	1.05	0.90	47
HCCR252010-4R7M	4.7 \pm 20%	0.563	0.95	0.70	42
HCCR252010-6R8M	6.8 \pm 20%	0.896	0.78	0.59	31
HCCR252010-100M	10 \pm 20%	1.092	0.65	0.50	27
HCCR252012-R47N	0.47 \pm 30%	0.061	3.82	2.15	160
HCCR252012-R68N	0.68 \pm 30%	0.074	3.28	1.95	140
HCCR252012-1R0N	1.0 \pm 30%	0.090	2.59	1.93	110
HCCR252012-1R2N	1.2 \pm 30%	0.129	2.38	1.46	100
HCCR252012-1R5M	1.5 \pm 20%	0.147	2.24	1.40	97
HCCR252012-2R2M	2.2 \pm 20%	0.216	1.85	1.15	69
HCCR252012-3R3M	3.3 \pm 20%	0.264	1.61	1.04	62
HCCR252012-3R6M	3.6 \pm 20%	0.348	1.46	0.90	53
HCCR252012-4R3M	4.3 \pm 20%	0.377	1.37	0.87	51
HCCR252012-4R7M	4.7 \pm 20%	0.377	1.12	0.84	47
HCCR252012-5R1M	5.1 \pm 20%	0.500	1.23	0.75	44
HCCR252012-5R6M	5.6 \pm 20%	0.538	1.11	0.73	38
HCCR252012-6R2M	6.2 \pm 20%	0.542	1.03	0.73	38
HCCR252012-6R8M	6.8 \pm 20%	0.581	0.98	0.69	38
HCCR252012-7R5M	7.5 \pm 20%	0.611	0.97	0.68	35
HCCR252012-8R2M	8.2 \pm 20%	0.658	0.98	0.65	36
HCCR252012-100M	10 \pm 20%	0.690	0.79	0.62	34
HCCR252012-120M	12 \pm 20%	1.075	0.78	0.51	28
HCCR252012-150M	15 \pm 20%	1.591	0.68	0.42	25
HCCR252012-220M	22 \pm 20%	1.976	0.53	0.38	20



SMD POWER INDUCTORS

● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
HCCR3010-1R0N	1.0 \pm 30%	0.065	1.40	1.45	180
HCCR3010-1R2N	1.2 \pm 30%	0.065	1.25	1.45	137
HCCR3010-1R5N	1.5 \pm 30%	0.080	1.27	1.30	120
HCCR3010-2R2N	2.2 \pm 30%	0.110	1.15	1.09	100
HCCR3010-2R7N	2.7 \pm 30%	0.130	1.00	1.02	90
HCCR3010-3R3N	3.3 \pm 30%	0.145	0.97	0.96	74
HCCR3010-3R6M	3.6 \pm 20%	0.165	0.95	0.90	67
HCCR3010-4R7M	4.7 \pm 20%	0.225	0.75	0.77	59
HCCR3010-6R8M	6.8 \pm 20%	0.305	0.55	0.66	42
HCCR3010-100M	10 \pm 20%	0.400	0.55	0.58	39
HCCR3010-120M	12 \pm 20%	0.505	0.43	0.52	36
HCCR3010-150M	15 \pm 20%	0.610	0.42	0.47	30
HCCR3010-220M	22 \pm 20%	0.930	0.35	0.38	28
HCCR3010-270M	27 \pm 20%	1.080	0.30	0.35	25
HCCR3010-330M	33 \pm 20%	1.550	0.29	0.30	18
HCCR3010-390M	39 \pm 20%	1.750	0.28	0.28	18
HCCR3010-430M	43 \pm 20%	1.800	0.23	0.27	18
HCCR3010-470M	47 \pm 20%	1.950	0.22	0.26	18
HCCR3010-510M	51 \pm 20%	2.200	0.21	0.25	18
HCCR3010-560M	56 \pm 20%	2.320	0.21	0.24	16

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20 °C)

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

3. Irms: DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$) from 25°C ambient.

4. Operating Temperature : $-25^{\circ}\text{C} \sim +105^{\circ}\text{C}$



SMD POWER INDUCTORS

● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
HCCR3012-R82N	0.82 \pm 30%	0.030	2.05	2.47	180
HCCR3012-1R0N	1.0 \pm 30%	0.040	1.87	2.20	120
HCCR3012-1R2N	1.2 \pm 30%	0.045	1.70	2.01	120
HCCR3012-1R5N	1.5 \pm 30%	0.045	1.62	2.01	110
HCCR3012-1R8N	1.8 \pm 30%	0.063	1.30	1.65	90
HCCR3012-2R2N	2.2 \pm 30%	0.075	1.20	1.55	84
HCCR3012-2R7N	2.7 \pm 30%	0.085	1.14	1.48	65
HCCR3012-3R3M	3.3 \pm 20%	0.100	1.05	1.36	64
HCCR3012-3R9M	3.9 \pm 20%	0.145	1.00	1.24	61
HCCR3012-4R7M	4.7 \pm 20%	0.120	0.90	1.24	61
HCCR3012-6R8M	6.8 \pm 20%	0.190	0.75	0.98	61
HCCR3012-100M	10 \pm 20%	0.265	0.60	0.83	42
HCCR3012-120M	12 \pm 20%	0.345	0.48	0.73	32
HCCR3012-150M	15 \pm 20%	0.360	0.45	0.71	27
HCCR3012-180M	18 \pm 20%	0.545	0.43	0.58	25
HCCR3012-220M	22 \pm 20%	0.645	0.42	0.53	23
HCCR3012-270M	27 \pm 20%	0.870	0.35	0.47	21
HCCR3012-330M	33 \pm 20%	0.875	0.36	0.46	18
HCCR3012-390M	39 \pm 20%	1.330	0.30	0.37	18
HCCR3012-470M	47 \pm 20%	1.450	0.27	0.35	14
HCCR3012-680M	68 \pm 20%	1.670	0.24	0.33	12
HCCR3012-820M	82 \pm 20%	2.540	0.17	0.27	12
HCCR3012-101M	100 \pm 20%	2.86	0.21	0.25	12

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20 $^{\circ}$ C)

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

3. Irms: DC current that causes the temperature rise (Δ T =40 $^{\circ}$ C) from 25 $^{\circ}$ C ambient.

4. Operating Temperature : -25 $^{\circ}$ C ~ +105 $^{\circ}$ C



SMD POWER INDUCTORS

● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
HCCR3015-1R0N	1.0 \pm 30%	0.039	2.32	2.35	150
HCCR3015-1R2N	1.2 \pm 30%	0.040	2.21	1.95	110
HCCR3015-1R5N	1.5 \pm 30%	0.050	2.00	1.70	100
HCCR3015-1R8N	1.8 \pm 30%	0.050	1.75	1.70	92
HCCR3015-2R2N	2.2 \pm 30%	0.060	1.60	1.60	86
HCCR3015-2R7N	2.7 \pm 30%	0.075	1.52	1.43	64
HCCR3015-3R3M	3.3 \pm 20%	0.080	1.32	1.36	68
HCCR3015-3R6M	3.6 \pm 20%	0.105	1.28	1.20	59
HCCR3015-4R3M	4.3 \pm 20%	0.115	1.20	1.14	53
HCCR3015-4R7M	4.7 \pm 20%	0.125	1.10	1.09	46
HCCR3015-5R1M	5.1 \pm 20%	0.133	1.00	1.05	49
HCCR3015-6R2M	6.2 \pm 20%	0.195	1.00	0.86	46
HCCR3015-6R8M	6.8 \pm 20%	0.200	0.85	0.85	39
HCCR3015-100M	10 \pm 20%	0.250	0.72	0.77	41
HCCR3015-120M	12 \pm 20%	0.320	0.70	0.68	32
HCCR3015-150M	15 \pm 20%	0.350	0.66	0.65	30
HCCR3015-180M	18 \pm 20%	0.430	0.56	0.59	23
HCCR3015-220M	22 \pm 20%	0.460	0.52	0.57	23
HCCR3015-270M	27 \pm 20%	0.730	0.48	0.45	22
HCCR3015-330M	33 \pm 20%	0.820	0.44	0.43	20
HCCR3015-390M	39 \pm 20%	0.995	0.41	0.39	14
HCCR3015-430M	43 \pm 20%	1.060	0.37	0.37	16
HCCR3015-470M	47 \pm 20%	1.250	0.35	0.35	14
HCCR3015-560M	56 \pm 20%	1.280	0.33	0.34	13
HCCR3015-620M	62 \pm 20%	1.610	0.30	0.30	13
HCCR3015-680M	68 \pm 20%	2.700	0.28	0.23	11
HCCR3015-101M	100 \pm 20%	3.110	0.23	0.21	10
HCCR3015-151M	150 \pm 20%	3.800	0.18	0.19	10



SMD POWER INDUCTORS

● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
HCCR4012-R82N	0.82 \pm 30%	0.050	3.02	1.65	150
HCCR4012-1R0N	1.0 \pm 30%	0.050	2.61	1.65	120
HCCR4012-1R5N	1.5 \pm 30%	0.065	2.10	1.46	90
HCCR4012-1R8N	1.8 \pm 30%	0.080	2.12	1.32	88
HCCR4012-2R2N	2.2 \pm 30%	0.080	1.76	1.32	74
HCCR4012-2R7N	2.7 \pm 30%	0.090	1.73	1.25	71
HCCR4012-3R3N	3.3 \pm 30%	0.110	1.72	1.12	60
HCCR4012-3R6N	3.6 \pm 30%	0.110	1.20	1.12	57
HCCR4012-4R7N	4.7 \pm 30%	0.125	1.15	1.05	50
HCCR4012-5R1N	5.1 \pm 30%	0.155	1.55	0.95	50
HCCR4012-5R6N	5.6 \pm 30%	0.140	1.00	1.00	42
HCCR4012-6R8M	6.8 \pm 20%	0.198	0.85	0.84	40
HCCR4012-100M	10 \pm 20%	0.265	0.80	0.77	33
HCCR4012-120M	12 \pm 20%	0.290	0.66	0.70	32
HCCR4012-150M	15 \pm 20%	0.340	0.56	0.64	25
HCCR4012-180M	18 \pm 20%	0.470	0.55	0.55	23
HCCR4012-220M	22 \pm 20%	0.587	0.46	0.49	20
HCCR4012-270M	27 \pm 20%	0.720	0.50	0.45	18
HCCR4012-330M	33 \pm 20%	0.810	0.42	0.42	17
HCCR4012-360M	36 \pm 20%	0.900	0.40	0.40	14
HCCR4012-390M	39 \pm 20%	1.100	0.38	0.37	16
HCCR4012-470M	47 \pm 20%	1.100	0.35	0.37	12
HCCR4012-560M	56 \pm 20%	1.250	0.33	0.33	11
HCCR4012-680M	68 \pm 20%	1.950	0.38	0.27	11
HCCR4012-820M	82 \pm 20%	2.140	0.28	0.26	11
HCCR4012-101M	100 \pm 20%	2.210	0.25	0.25	9.4

SMD POWER INDUCTORS

● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
HCCR4018-1R0N	1.0 \pm 30%	0.025	4.20	2.00	80
HCCR4018-1R5N	1.5 \pm 30%	0.030	3.35	1.80	65
HCCR4018-2R2M	2.2 \pm 20%	0.045	2.70	1.65	52
HCCR4018-3R3M	3.3 \pm 20%	0.070	2.45	1.23	44
HCCR4018-4R7M	4.7 \pm 20%	0.090	1.70	1.20	34
HCCR4018-6R8M	6.8 \pm 20%	0.110	1.45	1.06	29
HCCR4018-100M	10 \pm 20%	0.180	1.30	0.84	24
HCCR4018-150M	15 \pm 20%	0.250	0.94	0.65	19
HCCR4018-220M	22 \pm 20%	0.360	0.80	0.59	16
HCCR4018-330M	33 \pm 20%	0.530	0.56	0.49	12
HCCR4018-470M	47 \pm 20%	0.650	0.57	0.42	10
HCCR4018-680M	68 \pm 20%	1.000	0.47	0.32	8.3
HCCR4018-101M	100 \pm 20%	1.750	0.40	0.25	6.5
HCCR4018-151M	150 \pm 20%	2.500	0.31	0.22	5.5
HCCR4018-221M	220 \pm 20%	4.000	0.27	0.17	4.0

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20 $^{\circ}$ C)

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

3. Irms: DC current that causes the temperature rise (Δ T =40 $^{\circ}$ C) from 25 $^{\circ}$ C ambient.

4. Operating Temperature : -25 $^{\circ}$ C ~ +105 $^{\circ}$ C



SMD POWER INDUCTORS

● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
HCCR4020-1R0N	1.0 \pm 30%	0.029	4.78	2.15	75
HCCR4020-1R2N	1.2 \pm 30%	0.029	5.10	2.15	72
HCCR4020-1R5N	1.5 \pm 30%	0.035	4.45	1.98	71
HCCR4020-2R2N	2.2 \pm 30%	0.040	3.40	1.85	49
HCCR4020-3R3M	3.3 \pm 20%	0.070	3.20	1.40	44
HCCR4020-3R6M	3.6 \pm 20%	0.055	2.80	1.54	49
HCCR4020-4R7M	4.7 \pm 20%	0.075	2.35	1.34	42
HCCR4020-5R6M	5.6 \pm 20%	0.090	2.20	1.22	30
HCCR4020-6R8M	6.8 \pm 20%	0.125	2.20	1.04	33
HCCR4020-8R2M	8.2 \pm 20%	0.125	1.75	1.04	27
HCCR4020-100M	10 \pm 20%	0.165	1.60	0.90	26
HCCR4020-120M	12 \pm 20%	0.175	1.50	0.88	26
HCCR4020-150M	15 \pm 20%	0.230	1.35	0.77	24
HCCR4020-220M	22 \pm 20%	0.350	1.05	0.62	15
HCCR4020-270M	27 \pm 20%	0.545	1.02	0.50	14
HCCR4020-330M	33 \pm 20%	0.550	0.85	0.49	11
HCCR4020-390M	39 \pm 20%	0.650	0.82	0.46	11
HCCR4020-470M	47 \pm 20%	0.710	0.74	0.44	10
HCCR4020-510M	51 \pm 20%	0.750	0.70	0.42	10
HCCR4020-560M	56 \pm 20%	0.800	0.66	0.41	10
HCCR4020-620M	62 \pm 20%	0.900	0.65	0.39	9.6
HCCR4020-680M	68 \pm 20%	1.060	0.61	0.36	7.7
HCCR4020-750M	75 \pm 20%	1.160	0.70	0.35	7.7
HCCR4020-820M	82 \pm 20%	1.170	0.50	0.34	7.2
HCCR4020-101M	100 \pm 20%	1.550	0.48	0.31	6.3

SMD POWER INDUCTORS

● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
HCCR4030-1R0N	1.0 \pm 30%	0.014	5.26	4.15	70
HCCR4030-1R2N	1.2 \pm 30%	0.015	5.8	3.82	80
HCCR4030-1R5N	1.5 \pm 30%	0.020	4.84	3.34	62
HCCR4030-1R8N	1.8 \pm 30%	0.028	4.80	3.00	60
HCCR4030-2R2N	2.2 \pm 30%	0.030	4.40	2.95	52
HCCR4030-3R3M	3.3 \pm 20%	0.040	3.30	2.40	38
HCCR4030-4R7M	4.7 \pm 20%	0.060	2.90	2.00	31
HCCR4030-5R6M	5.6 \pm 20%	0.065	2.60	1.95	30
HCCR4030-6R8M	6.8 \pm 20%	0.090	2.75	1.60	24
HCCR4030-8R2M	8.2 \pm 20%	0.090	2.10	1.60	26
HCCR4030-100M	10 \pm 20%	0.100	1.95	1.50	21
HCCR4030-120M	12 \pm 20%	0.135	1.70	1.30	18
HCCR4030-150M	15 \pm 20%	0.190	1.65	1.11	16
HCCR4030-180M	18 \pm 20%	0.200	1.40	1.10	10
HCCR4030-220M	22 \pm 20%	0.225	1.30	1.00	10
HCCR4030-330M	33 \pm 20%	0.330	1.10	0.84	10
HCCR4030-390M	39 \pm 20%	0.435	1.03	0.73	10
HCCR4030-470M	47 \pm 20%	0.445	0.95	0.72	8.4
HCCR4030-560M	56 \pm 20%	0.555	0.85	0.65	8.4
HCCR4030-680M	68 \pm 20%	0.868	0.72	0.52	7
HCCR4030-820M	82 \pm 20%	1.060	0.66	0.47	5.6
HCCR4030-101M	100 \pm 20%	1.150	0.60	0.45	5.6
HCCR4030-121M	120 \pm 20%	1.350	0.55	0.42	5.4
HCCR4030-151M	150 \pm 20%	1.800	0.50	0.3	4
HCCR4030-221M	220 \pm 20%	2.500	0.40	0.35	4.2
HCCR4030-331M	330 \pm 20%	4.000	0.30	0.25	6.8
HCCR4030-471M	470 \pm 20%	7.200	0.30	0.2	2
HCCR4030-681M	680 \pm 20%	7.580	0.19	0.14	1.2



SMD POWER INDUCTORS

● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
HCCR5020-1R0N	1.0 \pm 30%	0.020	4.10	3.80	114
HCCR5020-1R5N	1.5 \pm 30%	0.030	4.10	3.20	68
HCCR5020-2R2N	2.2 \pm 30%	0.040	3.20	2.70	57
HCCR5020-3R3N	3.3 \pm 30%	0.050	2.55	2.30	46
HCCR5020-4R7M	4.7 \pm 20%	0.057	2.50	2.20	37
HCCR5020-6R8M	6.8 \pm 20%	0.083	2.05	1.80	30
HCCR5020-8R2M	8.2 \pm 20%	0.098	1.85	1.65	26
HCCR5020-100M	10 \pm 20%	0.120	1.70	1.55	24
HCCR5020-120M	12 \pm 20%	0.140	1.50	1.40	22
HCCR5020-150M	15 \pm 20%	0.165	1.35	1.25	20
HCCR5020-180M	18 \pm 20%	0.200	1.25	1.15	16
HCCR5020-220M	22 \pm 20%	0.250	1.15	1.10	14
HCCR5020-330M	33 \pm 20%	0.400	0.92	0.90	10
HCCR5020-470M	47 \pm 20%	0.580	0.77	0.75	7
HCCR5020-680M	68 \pm 20%	0.740	0.65	0.64	6
HCCR5020-820M	82 \pm 20%	0.965	0.65	0.50	6
HCCR5020-101M	100 \pm 20%	1.100	0.53	0.40	6

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20 $^{\circ}$ C)

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

3. Irms: DC current that causes the temperature rise (Δ T =40 $^{\circ}$ C) from 25 $^{\circ}$ C ambient.

4. Operating Temperature : -25 $^{\circ}$ C ~ +105 $^{\circ}$ C

SMD POWER INDUCTORS

● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
HCCR5040-1R0N	1.0 \pm 30%	0.012	7.35	4.90	117
HCCR5040-1R2N	1.2 \pm 30%	0.016	6.50	4.15	110
HCCR5040-1R5N	1.5 \pm 30%	0.018	6.30	4.00	86
HCCR5040-2R2N	2.2 \pm 30%	0.019	4.90	3.80	50
HCCR5040-2R7N	2.7 \pm 30%	0.022	4.30	3.60	37
HCCR5040-3R3N	3.3 \pm 30%	0.024	3.95	3.40	32
HCCR5040-3R9N	3.9 \pm 30%	0.027	3.55	3.20	29
HCCR5040-4R7M	4.7 \pm 20%	0.032	3.50	3.00	28
HCCR5040-5R6M	5.6 \pm 20%	0.035	3.00	2.80	27
HCCR5040-6R8M	6.8 \pm 20%	0.043	2.90	2.50	21
HCCR5040-100M	10 \pm 20%	0.064	2.35	2.10	18
HCCR5040-150M	15 \pm 20%	0.086	2.00	2.00	13
HCCR5040-220M	22 \pm 20%	0.129	1.60	1.50	11
HCCR5040-330M	33 \pm 20%	0.188	1.30	1.20	9.1
HCCR5040-470M	47 \pm 20%	0.272	1.10	1.00	6.7
HCCR5040-680M	68 \pm 20%	0.400	0.90	0.80	5.7
HCCR5040-101M	100 \pm 20%	0.560	0.75	0.70	4.7
HCCR5040-151M	150 \pm 20%	0.750	0.65	0.60	5
HCCR5040-221M	220 \pm 20%	1.280	0.40	0.38	3
HCCR5040-102M	1000 \pm 20%	6.200	0.25	0.25	2
HCCR5040-202M	2200 \pm 20%	13.000	0.10	0.10	2

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20°C)

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

3. Irms: DC current that causes the temperature rise ($\Delta T = 40^\circ\text{C}$) from 25°C ambient.

4. Operating Temperature : $-25^\circ\text{C} \sim +105^\circ\text{C}$



SMD POWER INDUCTORS

● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
HCCR6020-R5N	0.5 \pm 30%	0.014	4.50	3.30	120
HCCR6020-R68N	0.68 \pm 30%	0.017	6.55	3.80	115
HCCR6020-R82N	0.82 \pm 30%	0.017	5.30	3.80	110
HCCR6020-1R0N	1.0 \pm 30%	0.020	4.15	3.50	100
HCCR6020-1R2N	1.2 \pm 30%	0.022	5.90	3.20	88
HCCR6020-1R5N	1.5 \pm 30%	0.022	4.25	3.20	79
HCCR6020-1R8N	1.8 \pm 30%	0.028	4.85	2.75	68
HCCR6020-2R2N	2.2 \pm 30%	0.028	3.75	2.75	61
HCCR6020-2R7N	2.7 \pm 30%	0.035	3.90	2.60	56
HCCR6020-3R3N	3.3 \pm 30%	0.035	3.15	2.60	51
HCCR6020-3R9N	3.9 \pm 30%	0.049	3.25	2.10	45
HCCR6020-4R7M	4.7 \pm 20%	0.058	3.00	2.00	41
HCCR6020-5R6M	5.6 \pm 20%	0.058	2.40	1.90	36
HCCR6020-6R8M	6.8 \pm 20%	0.079	2.20	1.80	31
HCCR6020-8R2M	8.2 \pm 20%	0.105	2.10	1.40	27
HCCR6020-100M	10 \pm 20%	0.105	1.75	1.40	27
HCCR6020-120M	12 \pm 20%	0.120	1.45	1.30	25
HCCR6020-150M	15 \pm 20%	0.145	1.20	1.20	21
HCCR6020-180M	18 \pm 20%	0.180	1.20	1.08	18
HCCR6020-220M	22 \pm 20%	0.204	1.05	1.00	16
HCCR6020-330M	33 \pm 20%	0.300	0.95	0.84	11
HCCR6020-470M	47 \pm 20%	0.430	0.70	0.80	10

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20 °C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;
3. Irms: DC current that causes the temperature rise ($\Delta T = 40^{\circ}C$) from 25°C ambient.
4. Operating Temperature : -25°C ~ +105°C

SMD POWER INDUCTORS

● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
HCCR6028-1R0N	1.0 \pm 30%	0.010	5.75	5.20	70
HCCR6028-1R5N	1.5 \pm 30%	0.013	6.00	4.58	65
HCCR6028-2R2N	2.2 \pm 30%	0.020	5.10	3.75	48
HCCR6028-2R7N	2.7 \pm 30%	0.020	3.80	3.75	48
HCCR6028-3R3N	3.3 \pm 30%	0.025	4.15	3.48	41
HCCR6028-4R7N	4.7 \pm 30%	0.030	3.00	3.08	35
HCCR6028-5R1N	5.1 \pm 30%	0.043	3.20	2.60	32
HCCR6028-6R2M	6.2 \pm 20%	0.047	3.05	2.40	30
HCCR6028-6R8M	6.8 \pm 20%	0.047	2.60	2.40	27
HCCR6028-8R2M	8.2 \pm 20%	0.055	2.30	2.25	24
HCCR6028-9R1M	9.1 \pm 20%	0.074	2.55	2.15	24
HCCR6028-100M	10 \pm 20%	0.072	2.04	1.95	23
HCCR6028-120M	12 \pm 20%	0.080	1.80	1.85	18
HCCR6028-150M	15 \pm 20%	0.125	1.75	1.45	18
HCCR6028-180M	18 \pm 20%	0.120	1.52	1.45	15
HCCR6028-220M	22 \pm 20%	0.140	1.45	1.40	14
HCCR6028-270M	27 \pm 20%	0.155	1.50	1.32	13
HCCR6028-330M	33 \pm 20%	0.185	1.35	1.22	12
HCCR6028-360M	36 \pm 20%	0.215	1.25	1.13	11
HCCR6028-390M	39 \pm 20%	0.225	1.25	1.10	11
HCCR6028-470M	47 \pm 20%	0.315	1.15	1.06	9.5
HCCR6028-680M	68 \pm 20%	0.360	0.80	0.86	7.7
HCCR6028-750M	75 \pm 20%	0.410	0.90	0.81	7.7
HCCR6028-820M	82 \pm 20%	0.500	0.80	0.70	7.7
HCCR6028-101M	100 \pm 20%	0.500	0.65	0.70	7.1
HCCR6028-102M	1000 \pm 20%	5.800	0.18	0.20	1.5

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20°C)

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

3. Irms: DC current that causes the temperature rise ($\Delta T = 40^\circ C$) from 25°C ambient.

4. Operating Temperature : -25°C ~ +105°C



SMD POWER INDUCTORS

● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
HCCR6045-R82N	0.82 \pm 30%	0.008	10.35	5.90	140
HCCR6045-1R0N	1.0 \pm 30%	0.011	9.85	5.14	100
HCCR6045-1R2N	1.2 \pm 30%	0.010	8.35	5.40	100
HCCR6045-1R5N	1.5 \pm 30%	0.012	8.80	4.95	65
HCCR6045-1R8N	1.8 \pm 30%	0.012	7.60	4.95	74
HCCR6045-2R2N	2.2 \pm 30%	0.014	6.75	4.60	52
HCCR6045-3R3N	3.3 \pm 30%	0.024	5.90	3.70	32
HCCR6045-4R7M	4.7 \pm 20%	0.031	4.97	3.30	24
HCCR6045-5R6M	5.6 \pm 20%	0.034	4.15	3.15	23
HCCR6045-6R8M	6.8 \pm 20%	0.035	3.90	3.00	20
HCCR6045-8R2M	8.2 \pm 20%	0.043	3.90	2.60	21
HCCR6045-100M	10 \pm 20%	0.048	3.20	2.45	15
HCCR6045-120M	12 \pm 20%	0.058	2.80	2.20	13
HCCR6045-150M	15 \pm 20%	0.068	2.50	2.05	12
HCCR6045-180M	18 \pm 20%	0.081	2.20	1.85	10
HCCR6045-220M	22 \pm 20%	0.089	2.05	1.80	10
HCCR6045-270M	27 \pm 20%	0.102	1.90	1.65	9.2
HCCR6045-330M	33 \pm 20%	0.137	1.65	1.45	7.8
HCCR6045-390M	39 \pm 20%	0.180	1.50	1.25	7.8

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20 $^{\circ}$ C)

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

3. Irms: DC current that causes the temperature rise (Δ T =40 $^{\circ}$ C) from 25 $^{\circ}$ C ambient.

4. Operating Temperature : -25 $^{\circ}$ C ~ +105 $^{\circ}$ C



SMD POWER INDUCTORS

● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
HCCR6045-470M	47 \pm 20%	0.200	1.40	1.20	6.4
HCCR6045-510M	51 \pm 20%	0.207	1.35	1.15	6.4
HCCR6045-560M	56 \pm 20%	0.221	1.30	1.10	6.4
HCCR6045-620M	62 \pm 20%	0.235	1.25	1.10	6.4
HCCR6045-680M	68 \pm 20%	0.289	1.20	1.00	6.4
HCCR6045-750M	75 \pm 20%	0.305	1.15	0.95	5.0
HCCR6045-820M	82 \pm 20%	0.341	1.05	0.90	4.9
HCCR6045-910M	91 \pm 20%	0.359	1.00	0.85	4.9
HCCR6045-101M	100 \pm 20%	0.433	0.95	0.80	4.2
HCCR6045-121M	120 \pm 20%	0.484	0.85	0.77	4.2
HCCR6045-151M	150 \pm 20%	0.580	0.80	0.70	4.2
HCCR6045-221M	220 \pm 20%	0.834	0.70	0.59	3.5
HCCR6045-331M	330 \pm 20%	1.270	0.57	0.57	2.8
HCCR6045-471M	470 \pm 20%	1.800	0.50	0.42	2
HCCR6045-681M	680 \pm 20%	2.500	0.42	0.33	1.7
HCCR6045-102M	1000 \pm 20%	4.500	0.30	0.30	1.4
HCCR6045-152M	1500 \pm 20%	6.500	0.24	0.21	0.8

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20 $^{\circ}$ C)

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

3. Irms: DC current that causes the temperature rise (Δ T =40 $^{\circ}$ C) from 25 $^{\circ}$ C ambient.

4. Operating Temperature : -25 $^{\circ}$ C ~ +105 $^{\circ}$ C

SMD POWER INDUCTORS

● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE (μ H) 电感值	DCR (\pm 30%) (Ω) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
HCCR8040-R82N	0.82 \pm 30%	0.008	13.80	6.30	94
HCCR8040-1R0N	1.0 \pm 30%	0.008	9.85	6.30	89
HCCR8040-1R5N	1.5 \pm 30%	0.010	8.15	5.65	67
HCCR8040-2R2N	2.2 \pm 30%	0.012	7.10	5.15	41
HCCR8040-3R3N	3.3 \pm 30%	0.017	6.50	4.40	27
HCCR8040-4R7N	4.7 \pm 30%	0.019	5.90	4.10	24
HCCR8040-6R8M	6.8 \pm 20%	0.024	4.55	3.60	20
HCCR8040-8R2M	8.2 \pm 20%	0.026	4.20	3.45	17
HCCR8040-100M	10 \pm 20%	0.042	3.60	3.30	15
HCCR8040-150M	15 \pm 20%	0.047	2.95	2.60	12
HCCR8040-180M	18 \pm 20%	0.053	2.70	2.40	11
HCCR8040-220M	22 \pm 20%	0.069	2.40	2.10	9.5
HCCR8040-330M	33 \pm 20%	0.097	2.05	1.80	7.8
HCCR8040-390M	39 \pm 20%	0.107	1.95	1.70	7.8
HCCR8040-470M	47 \pm 20%	0.136	1.75	1.55	6.4
HCCR8040-560M	56 \pm 20%	0.148	1.55	1.45	6.4
HCCR8040-680M	68 \pm 20%	0.196	1.45	1.25	4.9
HCCR8040-820M	82 \pm 20%	0.225	1.30	1.15	5.9
HCCR8040-910M	91 \pm 20%	0.272	1.20	1.05	4.9
HCCR8040-101M	100 \pm 20%	0.290	1.15	1.00	4.2
HCCR8040-121M	120 \pm 20%	0.334	1.05	0.95	3.5
HCCR8040-151M	150 \pm 20%	0.410	1.10	0.85	3.5
HCCR8040-221M	220 \pm 20%	0.599	0.85	0.80	3.5
HCCR8040-331M	330 \pm 20%	0.889	0.68	0.64	2.8

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20 °C)

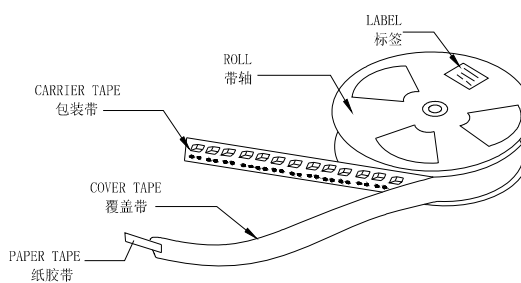
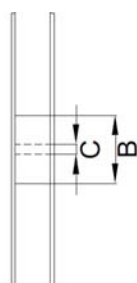
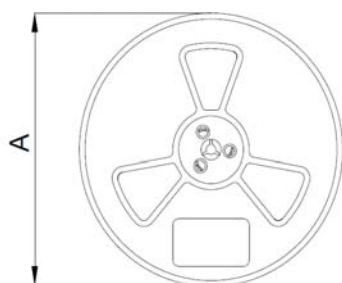
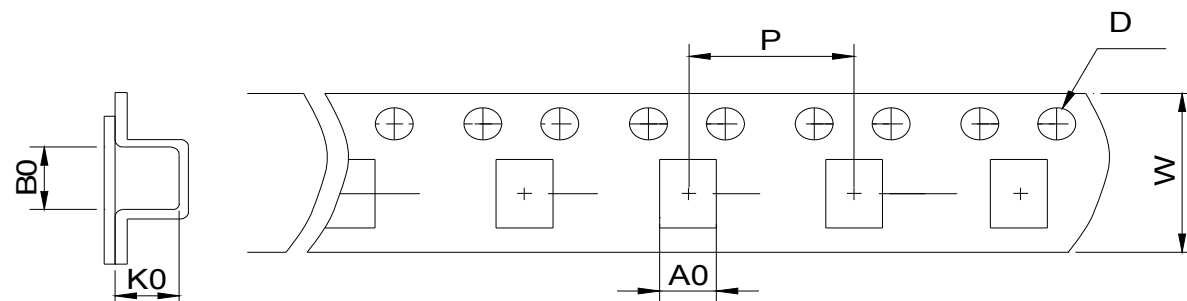
2. Isat: DC current at which the inductance drops approximate 30% from its value without current;

3. Irms: DC current that causes the temperature rise ($\Delta T = 40^{\circ}C$) from 25°C ambient.

4. Operating Temperature : -25°C ~ +105°C

SMD POWER INDUCTORS

● PACKAGING SPECIFICATION :



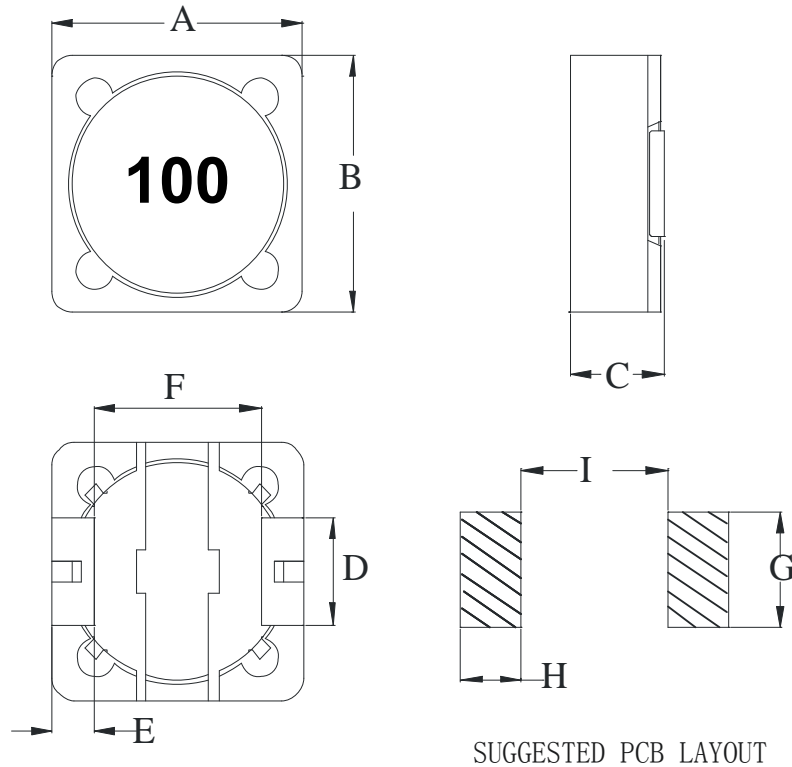
Type	Tape Dimension (mm)						Reel Dimension (mm)			Quantity (Pcs/Reel)
	W	A0	B0	K0	D	P	A	B	C	
HCCR252010	8	2.35	2.65	1.4	1.5	4	178	58	13	2000
HCCR252012	8	2.35	2.65	1.6	1.5	4	178	58	13	2000
HCCR3010	8	3.3	3.3	1.4	1.5	4	330	100	13	4000
HCCR3012	8	3.3	3.3	1.6	1.5	4	330	100	13	4000
HCCR3015	8	3.3	3.3	1.9	1.5	4	330	100	13	4000
HCCR4010	12	4.3	4.3	1.4	1.5	8	330	100	13	4000
HCCR4018	12	4.3	4.3	2.2	1.5	8	330	100	13	3000
HCCR4020	12	4.3	4.3	2.4	1.5	8	330	100	13	3000
HCCR4030	12	4.3	4.3	3.4	1.5	8	330	100	13	2000
HCCR5020	12	5.4	5.4	2.4	1.5	8	330	100	13	3000
HCCR5040	12	5.4	5.4	4.4	1.5	8	330	100	13	1500
HCCR6020	16	6.4	6.4	2.4	1.5	8	330	100	13	2500
HCCR6028	16	6.4	6.4	3.2	1.5	8	330	100	13	2000
HCCR6045	16	6.4	6.4	4.8	1.5	8	330	100	13	1500
HCCR8040	16	8.4	8.4	4.4	1.5	12	330	100	13	1500



SMD POWER INDUCTORS



◆、MECHANICAL & DIMENSIONS



(UNIT: mm)

A	12.2±0.4
B	12.2±0.4
C	8.0 MAX
D	5.2 TYP
E	2.2 TYP
F	7.6 TYP
G	5.4 TYP
H	2.8 TYP
I	7.0 TYP

Note:

白色:

SUGGESTED PCB LAYOUT

◆、MATERIAL IDENTIFICATION:

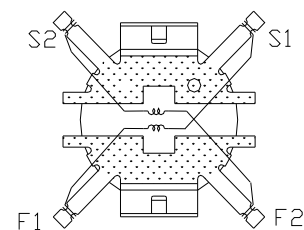
NO	COMPONENT PART	DESCRIPTION	SUPPLIER	REMARKS
1	DR CORE	DR9.9*7*6.0STD		
2	RI CORE	RI12.2*6.9*10.8HC		
3	WIRE	2UEWH		
4	SOLDER	Sn/Cu		
5	EPOXY	127-A		
6	EPOXY	127-B		
7	CLIP	HY-127 雾锡		
8	INK	白色		
9				
10				

SMD POWER INDUCTORS

◆、 ELECTRICAL REQUIREMENTS:								
型号	Ls			DCR(mΩ) MAX	Isat (A)	线径 (mm)	圈数(Ts) (REF)	备注
	μH	f(Hz)	V(V)					
HCCDRH127-1R5M	1.5	100K	0.3	9.5	9.8	Φ0.40*2P	4.5	
HCCDRH127-2R2M	2.2	100K	0.3	13	8	Φ0.40*2P	5.5	
HCCDRH127-3R3M	3.3	100K	0.3	14	7.5	Φ0.40*2P	6.5	
HCCDRH127-3R9M	3.9	100K	0.3	16	7.5	Φ0.40*2P	7.5	
HCCDRH127-4R7M	4.7	100K	0.3	17	6.8	Φ0.40*2P	8.5	
HCCDRH127-6R8M	6.8	100K	0.3	19.2	6.6	Φ0.40*2P	9.5	
HCCDRH127-7R6M	7.6	100K	0.3	20.4	6.6	Φ0.40*2P	10.5	
HCCDRH127-100M	10	1K	0.3	23	25	Φ0.40*2P	11.5	
HCCDRH127-120M	12	1K	0.3	25	4.9	Φ0.40*2P	12.5	
HCCDRH127-150M	15	1K	0.3	30	4.5	Φ0.40*2P	14.5	
HCCDRH127-180M	18	1K	0.3	39.2	3.9	Φ0.37*2P	15.5	
HCCDRH127-220M	22	1K	0.3	43.2	3.6	Φ0.37*2P	17.5	
HCCDRH127-270M	27	1K	0.3	45.9	3.4	Φ0.37*2P	19.5	
HCCDRH127-330M	33	1K	0.3	64.8	3	Φ0.35*2P	20.5	
HCCDRH127-390M	39	1K	0.3	72.9	2.75	Φ0.35*2P	23.5	
HCCDRH127-470MT	47	1K	0.3	100	2.5	Φ0.32*2P	25.5	
HCCDRH127-560M	56	1K	0.3	110	2.35	Φ0.30*2P	27.5	
HCCDRH127-680M	68	1K	0.3	140	2.1	Φ0.30*2P	30.5	

Note: 工作温度范围-40℃~+85℃

Isat: 指使电感量比初始值下降25%的电流



(图1)

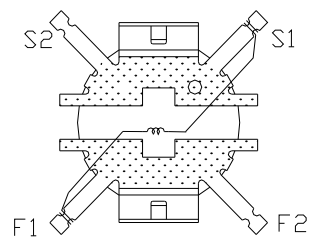
SMD POWER INDUCTORS

◆、 ELECTRICAL REQUIREMENTS:

型号	Ls			DCR(mΩ) MAX	Isat (A)	线径 (mm)	圈数(Ts) (REF)	备注
	μH	f(Hz)	V(V)					
HCCDRH127-820M	82	1K	0.3	160	1.95	Φ0.40*1P	33.5	
HCCDRH127-101M	100	1K	0.3	220	1.7	Φ0.37*1P	37.5	
HCCDRH127-121M	120	1K	0.3	250	1.6	Φ0.35*1P	40.5	
HCCDRH127-151M	150	1K	0.3	280	1.42	Φ0.32*1P	45.5	
HCCDRH127-181M	180	1K	0.3	350	1.3	Φ0.32*1P	49.5	
HCCDRH127-221M	220	1K	0.3	390	1.16	Φ0.30*1P	55.5	
HCCDRH127-271M	270	1K	0.3	560	1.06	Φ0.30*1P	61.5	
HCCDRH127-331M	330	1K	0.3	640	0.95	Φ0.28*1P	67.5	
HCCDRH127-391M	390	1K	0.3	700	0.88	Φ0.27*1P	73.5	
HCCDRH127-471M	470	1K	0.3	980	0.79	Φ0.25*1P	80.5	
HCCDRH127-561M	560	1K	0.3	1080	0.73	Φ0.23*1P	88.5	
HCCDRH127-681M	680	1K	0.3	1460	0.67	Φ0.22*1P	96.5	
HCCDRH127-821M	820	1K	0.3	1640	0.6	Φ0.21*1P	106.5	
HCCDRH127-102M	1000	1K	0.3	1820	0.55	Φ0.20*1P	117.5	

Note: 工作温度范围-40℃~+85℃

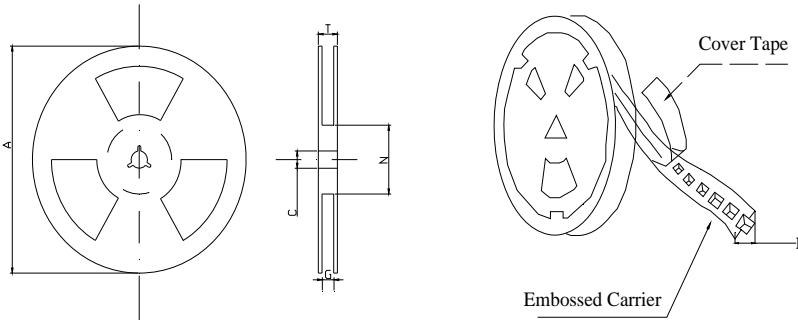
Isat: 指使电感量比初始值下降25%的电流



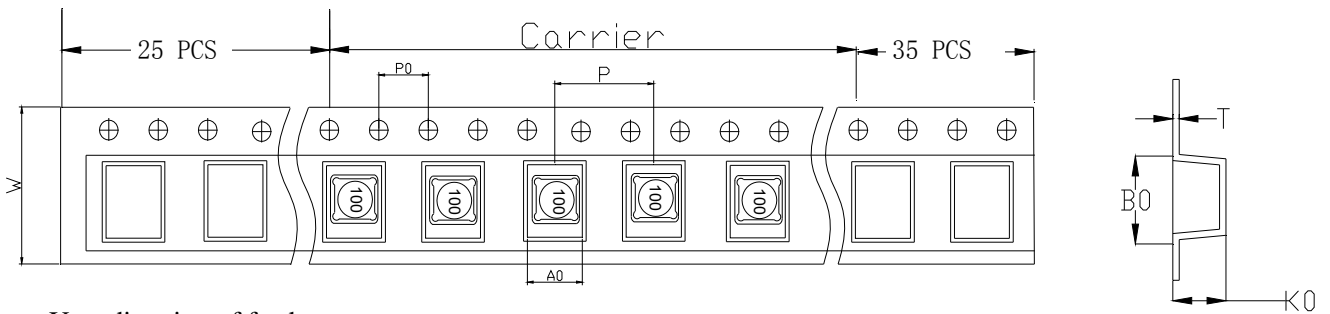
(图2)

SMD POWER INDUCTORS

◆ Packaging Information



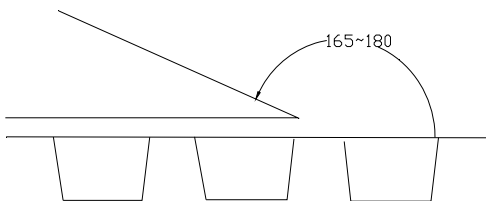
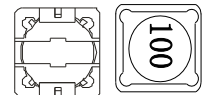
Style	13-24
A	330
C	13
D	24
G	24.5
N	50
T	28.5



User direction of feed

PULL DIRECTION

A0	B0	P0	P	W	K0	T
12.7±0.3	12.7±0.3	4.0±0.3	16.0±0.3	24.0±0.3	8.0±0.3	0.4±0.1



The force for tearing off cover tape is 10 to 130 grams in arrow direction

Q'TY Per package:

Inner:Reel		Outer:Carton		
Q' TY (PCS)	Style	Q' TY (PCS)	Size (mm)	封装方式
500	13-24	2,000	425*405*170	自粘