

SHENZHEN HIGHSTARTECH ELECTRONICS CO., LTD

HEQ SERIES

1. FEATURES:

- (1) Excellent DC bias capability to handle instantaneous peak current.
- (2) Compact design saves PCB mounting area.
- (3) The inductance value and DC bias characteristic are little affected by temperature.

2. APPLICATIONS:

- (1) PV inverter/Industrial control/New energy.
- (2) DC/DC converters/Motherboards/Filter.
- (3) High current switching regulators.

3. PART NUMBER SYSTEM:

HEQ	2017	X	3R3	M
series	dimension	Feature	inductance value	tolerance

Feature:

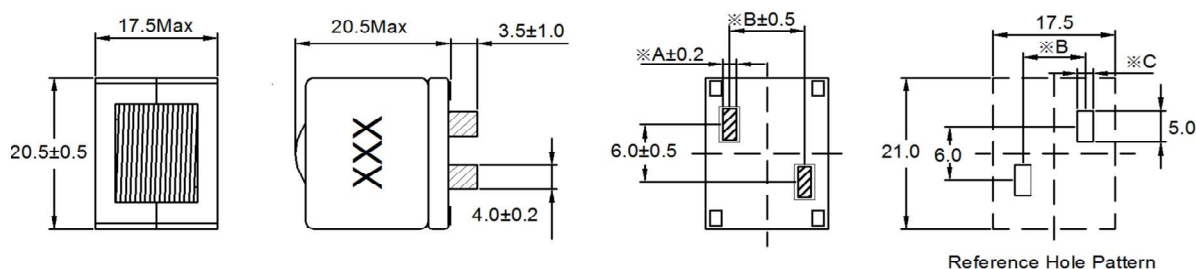
X---Ferrosilicon	H---Alloy
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Tolerance:

J-----+/-5%	M-----+/-20%
K-----+/-10%	P-----+/-25%
L-----+/-15%	N-----+/-30%

4. PHYSICAL CHARACTERISTICS :

HEQ2017X SERIES

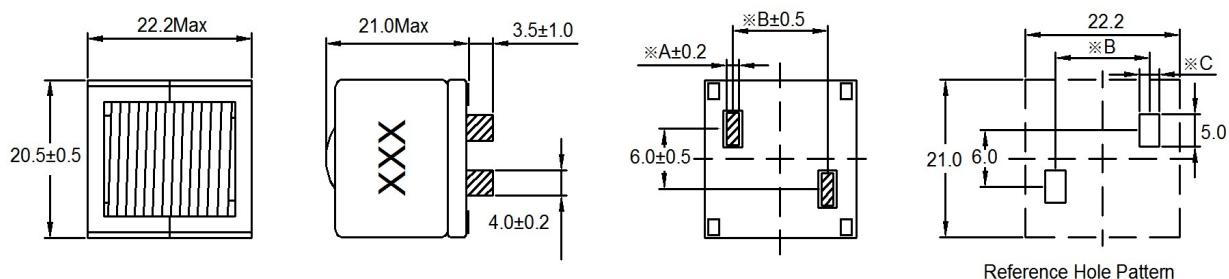


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HEQ SERIES

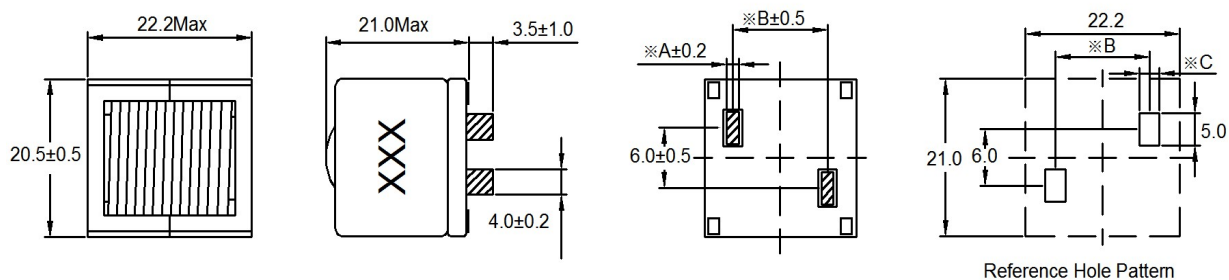
Inductance	3.3uH	4.7uH	7.6uH	10uH	15uH	22uH
A(mm)	1.5	1.2	1.0	0.9	0.7	0.6
B(mm)	9.8	9.6	10.2	10.1	10.1	10.1
C(mm)	2.3	2.0	1.8	1.7	1.5	1.4

HEQ2022H SERIES



Inductance	2.7uH	3.9uH	5.2uH	6.5uH	8.2uH	10uH
A(mm)	2.0	1.8	1.6	1.4	1.3	1.2
B(mm)	13.5	13.9	13.9	13.7	14	14.5
C(mm)	3.0	2.8	2.6	2.4	2.3	2.2

HEQ2022X SERIES

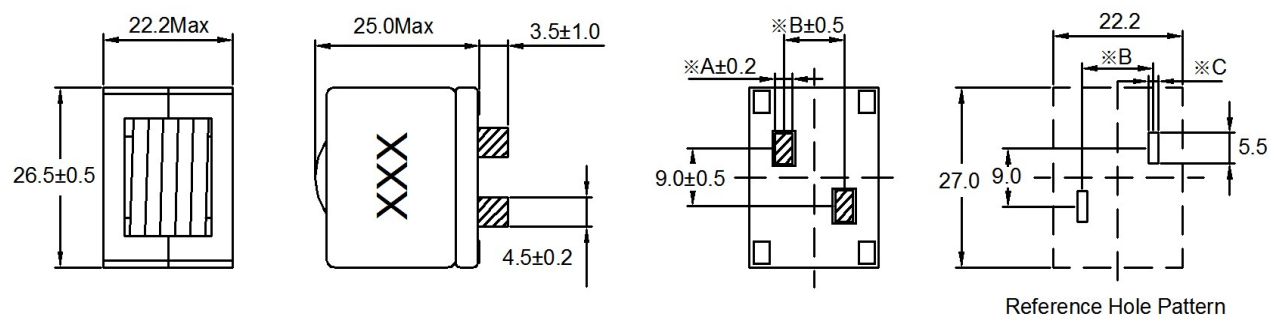


Inductance	2.7uH	3.9uH	5.2uH	6.5uH	8.2uH	10uH
A(mm)	2.0	1.8	1.6	1.4	1.3	1.2
B(mm)	13.5	13.9	13.9	13.7	14.0	14.5
C(mm)	3.0	2.8	2.6	2.4	2.3	2.2

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HEQ SERIES

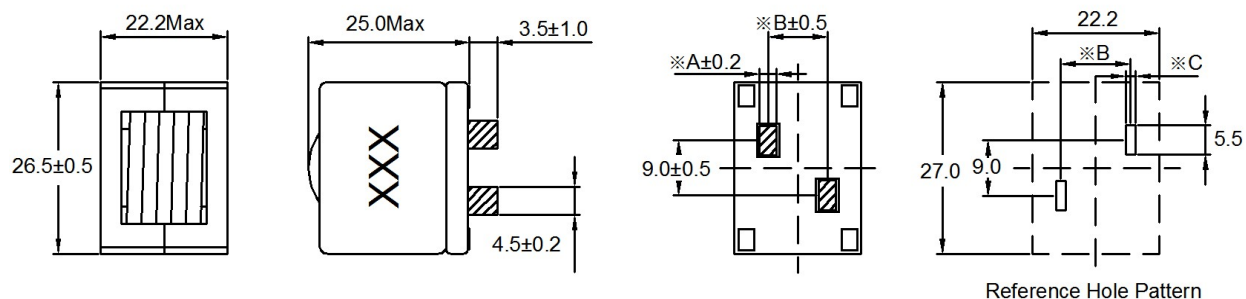
HEQ2622H SERIES



Reference Hole Pattern

Inductance	2.2uH	3.6uH	5.5uH	7.5uH	10uH	12uH
A(mm)	2.5	2.0	1.8	1.6	1.3	1.3
B(mm)	10.8	11.0	12.4	12.6	11.8	12.9
C(mm)	3.5	3.0	2.8	2.6	2.3	2.3

HEQ2622X SERIES



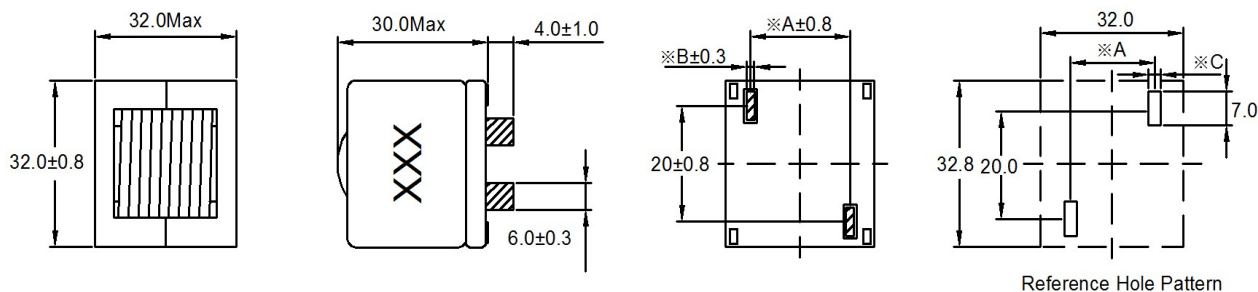
Reference Hole Pattern

Inductance	2.2uH	3.6uH	4.7uH	5.6uH	7.5uH	10uH
A(mm)	2.5	2.0	1.8	1.8	1.6	1.3
B(mm)	10.8	11.0	11.55	12.4	12.6	11.8
C(mm)	3.5	3.0	2.8	2.8	2.6	2.3

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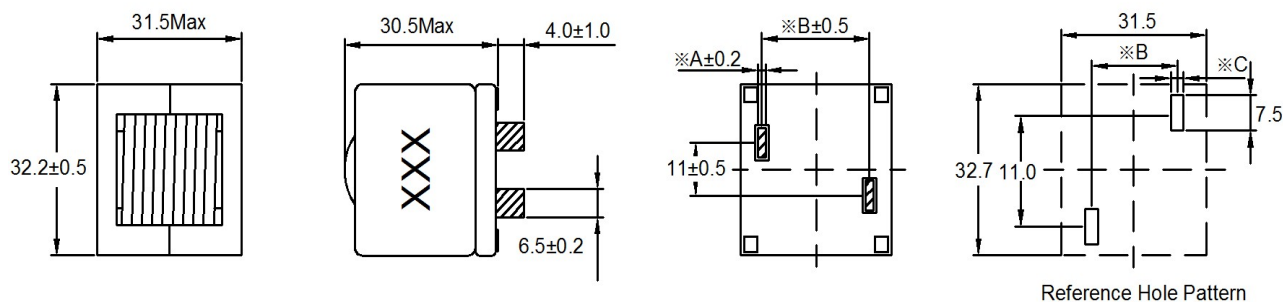
HEQ SERIES

HEQ3231H SERIES



Inductance	6.2uH	8.2uH	10uH	12uH	15uH	18uH
A(mm)	20.2	20.0	20	20.5	20.2	20.8
B(mm)	2.5	2.2	2.0	1.8	1.6	1.5
C(mm)	3.5	3.2	3.0	2.8	2.6	2.5

HEQ3231X SERIES

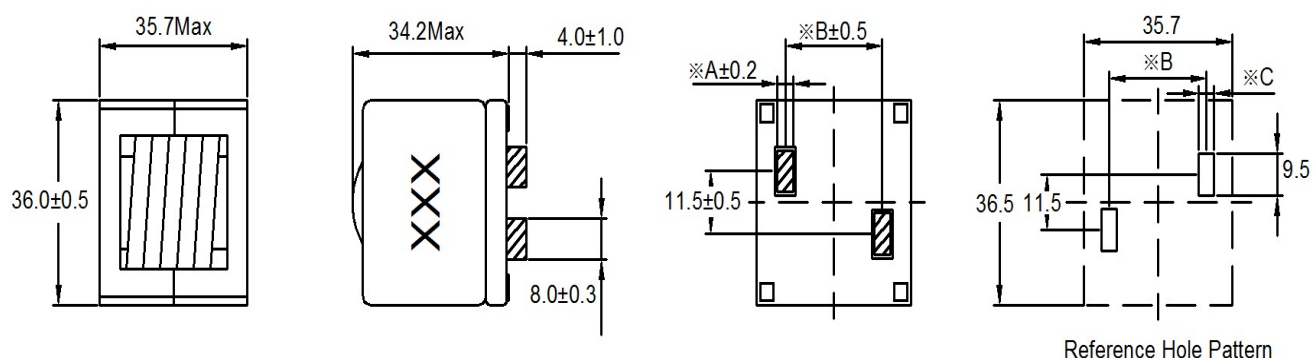


Inductance	4.7uH	10uH	45uH
A(mm)	2.7	1.8	1.0
B(mm)	18	18.8	20.5
C(mm)	3.9	2.8	2.0

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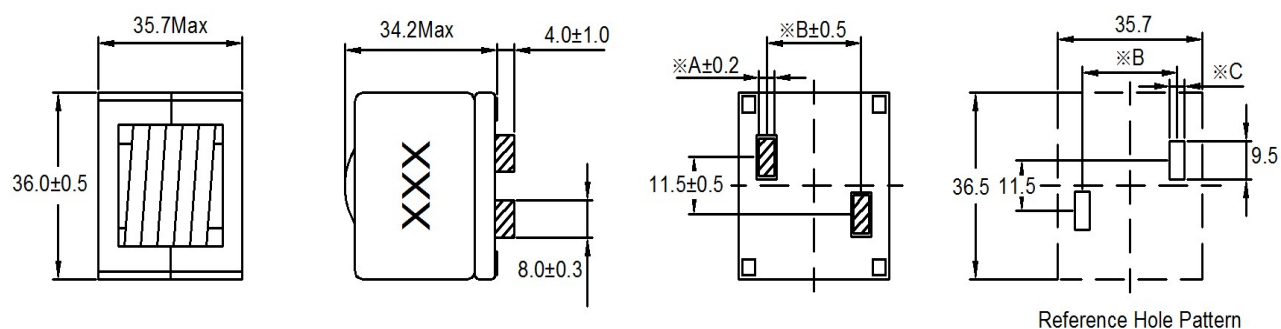
HEQ SERIES

HEQ3635H SERIES



Inductance	4.7uH	6.8uH	8.6uH	11uH	16uH	27uH
A(mm)	3.2	3.0	2.5	2.3	1.8	1.5
B(mm)	22.6	22.6	23.3	24.2	24.2	24.2
C(mm)	4.4	4.2	3.7	3.5	2.8	2.5

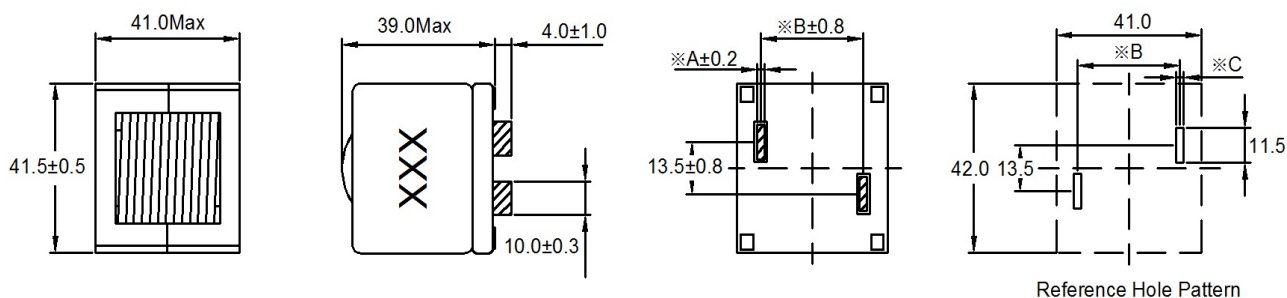
MEQ3635X SERIES



Inductance	4.7uH	6.8uH	8.6uH	10uH	15uH	27uH
A(mm)	3.2	3.0	2.5	2.3	1.8	1.5
B(mm)	22.6	22.6	23.3	24.2	24.2	24.2
C(mm)	4.4	4.2	3.7	3.5	2.8	2.5

HEQ SERIES

HEQ4141X SERIES



Inductance	27uH	33uH	50uH	68uH	100uH
A(mm)	1.6	1.4	1.2	1.0	0.8
B(mm)	28.5	28.8	28.5	29.0	29.0
C(mm)	2.6	2.4	2.2	2.0	1.8

5. ELECTRICAL CHARACTERISTICS:

HEQ2017X SERIES

Part Number	L0(uH) @ (0A)100KHz/0.1 V	DCR(Ω)		Isat(A) Saturation Current	Irms(A) Heat Rating Current
		Tpy.	Max.		
HEQ2017X-3R3M	3.3±20%	0.77	0.92	70.0	52.5
HEQ2017X-4R7M	4.7±20%	1.13	1.35	55.0	41.8
HEQ2017X-7R6M	7.6±20%	1.70	2.04	46.0	34.0
HEQ2017X-100M	10±20%	2.07	2.48	41.0	31.0
HEQ2017X-150M	15±20%	3.52	4.22	31.0	24.0
HEQ2017X-220M	22±20%	4.67	5.60	24.0	20.5

SHENZHEN HIGHSTARTECH ELECTRONICS CO., LTD

HEQ SERIES

HEQ2022H SERIES

Part Number	L0(uH) @(0A)100KHz/ 0.1V	DCR(Ω)		Isat(A) Saturation Current	Irms(A) Heat Rating Current
		Tpy.	Max.	Max.	Max.
HEQ2022H-2R7M	2.7±20%	0.60	0.72	41.0	60.0
HEQ2022H-3R9M	3.9±20%	0.73	0.88	35.0	54.0
HEQ2022H-5R2M	5.2±20%	0.93	1.12	31.0	48.0
HEQ2022H-6R5M	6.5±20%	1.26	1.51	27.5	42.0
HEQ2022H-8R2M	8.2±20%	1.44	1.73	24.5	38.5
HEQ2022H-100M	10±20%	1.76	2.11	22.0	35.0
HEQ2022H-130M	13±20%	2.47	2.96	19.0	29.0
HEQ2022H-200M	20±20%	3.72	4.46	15.5	24.0

HEQ2022X SERIES

Part Number	L0(uH) @(0A)100KHz/ 0.1V	DCR(Ω)		Isat(A) Saturation Current	Irms(A) Heat Rating Current
		Tpy.	Max.	Max.	Max.
HEQ2022X-2R7M	2.7±20%	0.60	0.72	82.0	60.0
HEQ2022X-3R9M	3.9±20%	0.73	0.88	72.0	54.0
HEQ2022X-5R2M	5.2±20%	0.93	1.12	60.0	48.0
HEQ2022X-6R5M	6.5±20%	1.26	1.51	55.0	42.0
HEQ2022X-8R2M	8.2±20%	1.44	1.73	47.0	38.5
HEQ2022X-100M	10±20%	1.76	2.11	44.0	35.0
HEQ2022X-150M	15±20%	2.47	2.96	33.0	29.0
HEQ2022X-220M	22±20%	3.72	4.46	27.0	24.0

SHENZHEN HIGHSTARTECH ELECTRONICS CO., LTD

HEQ SERIES

HEQ2622H SERIES

Part Number	L0(uH) @(0A)100KHz/ 0.1V	DCR(Ω)		Isat(A) Saturation Current	Irms(A) Heat Rating Current
		Tpy.	Max.	Max.	Max.
HEQ2622H-2R2M	2.2±20%	0.36	0.43	73.0	79.0
HEQ2622H-3R6M	3.6±20%	0.53	0.64	58.0	65.0
HEQ2622H-5R5M	5.5±20%	0.70	0.84	40.0	56.0
HEQ2622H-7R5M	7.5±20%	0.96	1.15	34.0	48.0
HEQ2622H-100M	10±20%	1.34	1.61	29.0	41.0
HEQ2622H-120M	12±20%	1.51	1.81	27.0	39.0
HEQ2622H-150M	15±20%	1.93	2.32	24.0	34.0
HEQ2622H-220M	22±20%	2.90	3.48	19.0	28.0

HEQ2622X SERIES

Part Number	L0(uH) @(0A)100KHz/ 0.1V	DCR(Ω)		Isat(A) Saturation Current	Irms(A) Heat Rating Current
		Tpy.	Max.	Max.	Max.
HEQ2622X-2R2M	2.2±20%	0.36	0.43	120.0	79.0
HEQ2622X-3R6M	3.6±20%	0.53	0.64	101.0	65.0
HEQ2622X-4R7M	4.7±20%	0.75	0.95	70.0	62.0
HEQ2622X-5R6M	5.6±20%	0.70	0.84	70.0	56.0
HEQ2622X-7R5M	7.5±20%	0.96	1.15	60.0	48.0
HEQ2622X-100M	10±20%	1.34	1.61	52.0	41.0
HEQ2622X-120M	12±20%	1.51	1.81	49.0	39.0
HEQ2622X-150M	15±20%	1.93	2.32	42.0	34.0
HEQ2622X-220M	22±20%	2.90	3.48	37.0	28.0

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HEQ SERIES

HEQ2626X SERIES

Part Number	L0(uH) @(0A)100KHz/ 0.1V	DCR(Ω)		Isat(A) Saturation Current	Irms(A) Heat Rating Current
		Tpy.	Max.	Max.	Max.
HEQ2626X-4R1M	4.1±20%	0.53	0.64	92.0	60.0
HEQ2626X-6R5M	6.5±20%	0.75	0.90	72.0	56.0
HEQ2626X-100M	10±20%	1.23	1.48	59.0	44.0
HEQ2626X-150M	15±20%	1.84	2.20	50.0	36.0
HEQ2626X-180M	18±20%	2.18	2.62	44.0	33.0
HEQ2626X-220M	22±20%	2.49	2.99	38.0	30.0
HEQ2626X-270M	27±20%	2.97	3.56	32.0	28.0
HEQ2626X-350M	35±20%	3.88	4.66	30.0	25.0

HEQ3222X SERIES

Part Number	L0(uH) @(0A)100KHz/ 0.1V	DCR(Ω)		Isat(A) Saturation Current	Irms(A) Heat Rating Current
		Tpy.	Max.	Max.	Max.
HEQ3222X-6R2M	6.2±20%	0.60	0.72	88.0	65.0
HEQ3222X-180M	18±20%	1.73	2.08	49.0	38.0
HEQ3222X-360M	36±20%	3.46	4.15	36.0	27.0
HEQ3222X-470M	47±20%	4.60	5.52	30.0	23.0

SHENZHEN HIGHSTARTECH ELECTRONICS CO., LTD

HEQ SERIES

HEQ3231H SERIES

Part Number	L0(uH) @(0A)100KHz/ 0.1V	DCR(Ω)		Isat(A) Saturation Current	Irms(A) Heat Rating Current
		Tpy.	Max.	Max.	Max.
HEQ3231H-6R2M	6.2±20%	0.55	0.66	50.0	68.0
HEQ3231H-8R2M	8.2±20%	0.70	0.85	43.0	60.0
HEQ3231H-100M	10±20%	0.88	1.05	38.0	50.0
HEQ3231H-120M	12±20%	1.10	1.30	35.0	45.0
HEQ3231H-150M	15±20%	1.35	1.60	31.0	42.0
HEQ3231H-180M	18±20%	1.55	1.85	28.5	38.0
HEQ3231H-220M	22±20%	1.80	2.15	26.0	35.0
HEQ3231H-250M	25±20%	2.10	2.95	24.0	32.0
HEQ3231H-300M	30±20%	2.45	2.95	23.0	30.0

HEQ3231X SERIES

Part Number	L0(uH) @(0A)100KHz/ 0.1V	DCR(Ω)		Isat(A) Saturation Current	Irms(A) Heat Rating Current
		Tpy.	Max.	Max.	Max.
HEQ3231X-4R7M	4.7±20%	0.39	0.47	115.0	84.0
HEQ3231X-100M	10±20%	0.88	1.06	79.0	55.0
HEQ3231X-450M	45±20%	3.11	3.73	34.0	30.0

SHENZHEN HIGHSTARTECH ELECTRONICS CO., LTD

HEQ SERIES

HEQ3635H SERIES

Part Number	L0(uH) @(0A)100KHz/ 0.1V	DCR(Ω)		Isat(A) Saturation Current	Irms(A) Heat Rating Current
		Tpy.	Max.	Max.	Max.
HEQ3635H-4R7M	4.7 $\pm$ 20%	0.30	0.36	65.0	120.0
HEQ3635H-6R8M	6.8 $\pm$ 20%	0.38	0.46	54.0	107.0
HEQ3635H-8R6M	8.6 $\pm$ 20%	0.51	0.61	48.0	73.0
HEQ3635H-110M	11 $\pm$ 20%	0.62	0.74	42.5	71.0
HEQ3635H-160M	16 $\pm$ 20%	0.96	1.15	35.0	62.0
HEQ3635H-270M	27 $\pm$ 20%	1.48	1.78	27.0	54.0
HEQ3635H-560M	56 $\pm$ 20%	3.19	3.83	19.0	41.0
HEQ3635H-950M	95 $\pm$ 20%	5.13	6.15	14.5	32.0
HEQ3635H-111M	110 $\pm$ 20%	6.18	7.41	13.0	30.0

HEQ3635X SERIES

Part Number	L0(uH) @(0A)100KHz/ 0.1V	DCR(Ω)		Isat(A) Saturation Current	Irms(A) Heat Rating Current
		Tpy.	Max.	Max.	Max.
HEQ3635X-4R7M	4.7 $\pm$ 20%	0.30	0.36	126.0	120.0
HEQ3635X-6R5M	6.5 $\pm$ 20%	0.38	0.46	103.0	107.0
HEQ3635X-8R6M	8.6 $\pm$ 20%	0.51	0.61	95.0	73.0
HEQ3635X-100M	10 $\pm$ 20%	0.62	0.74	87.0	71.0
HEQ3635X-150M	15 $\pm$ 20%	0.96	1.15	71.0	62.0
HEQ3635X-270M	27 $\pm$ 20%	1.48	1.78	51.0	54.0
HEQ3635X-560M	56 $\pm$ 20%	3.19	3.83	34.0	41.0
HEQ3635X-950M	95 $\pm$ 20%	5.13	6.15	26.0	32.0
HEQ3635X-111M	110 $\pm$ 20%	6.18	7.41	24.0	30.0

SHENZHEN HIGHSTARTECH ELECTRONICS CO., LTD

HEQ SERIES

HEQ4141X SERIES

Part Number	L0(uH) @(0A)100KHz/ 0.1V	DCR(Ω)		Isat(A) Saturation Current	Irms(A) Heat Rating Current
		Tpy.	Max.	Max.	Max.
HEQ4141X-270M	27 $\pm$ 20%	1.31	1.57	60.0	70.0
HEQ4141X-330M	33 $\pm$ 20%	1.56	1.88	54.0	52.0
HEQ4141X-500M	50 $\pm$ 20%	2.32	2.79	44.0	48.0
HEQ4141X-680M	68 $\pm$ 20%	3.18	3.82	37.0	43.0
HEQ4141X-101M	100 $\pm$ 20%	4.85	5.82	31.0	35.0