



SMD Power Inductors

HPC2012 Series B/C Type

Shielded Low Profile Inductors.

遮蔽式低高度功率電感。



Features

- Small and Low profile inductor
- It corresponds to High current
- Simple and original magnetic shield structure.
- Durable structure against drooping impact.
- 100% Lead(Pb)-Free and RoHS compliant.

特徵

- 小型且低高度電感。
- 支援大電流。
- 獨特的磁遮蔽結構。
- 耐落下衝擊之構造。
- 無鉛產品符合 RoHS 需求。

Applications

- For small DC/DC converter.
(cellular Phone, HDD, DVC, DSC, PDA, LCD display etc.)

應用

- 可用於手機, HDD, DVC, DSC, PDA, 液晶顯示器等產品的 DC/DC 轉換器。

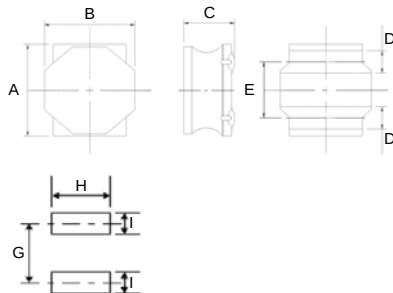
Part Numbering

HPC **2012** **B** - **2R2** **M**

A B C D E

A: Series
B: Dimension A x B
C: Coating Resin Material B/C
D: Inductance 2R2=2.2uH
E: Inductance Tolerance M=±20%, Y=±30%

Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	G(mm)	H(mm)	I(mm)
HPC2012B/C	2.0±0.1	2.0±0.1	1.2 max.	0.5±0.2	1.25±0.2	1.35 ref.	2.0 ref.	0.65 ref.

Units: mm

Electrical Characteristics

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) ±20%	I sat (A)	I rms (A)
HPC2012B-1R0Y	1.0	±30%	1V100K	0.070	1.90	1.70
HPC2012B-1R5Y	1.5	±30%	1V100K	0.090	1.65	1.50
HPC2012B-2R2M	2.2	±20%	1V100K	0.107	1.35	1.37
HPC2012B-3R3M	3.3	±20%	1V100K	0.190	1.00	1.02
HPC2012B-4R7M	4.7	±20%	1V100K	0.241	0.90	0.91
HPC2012C-1R0Y	1.0	±30%	1V100K	0.073	2.20	1.65
HPC2012C-1R5Y	1.5	±30%	1V100K	0.100	1.80	1.40
HPC2012C-2R2M	2.2	±20%	1V100K	0.129	1.60	1.20
HPC2012C-3R3M	3.3	±20%	1V100K	0.227	1.25	0.90
HPC2012C-4R7M	4.7	±20%	1V100K	0.325	1.10	0.75

Note:

I_{sat} : Based on inductance change (ΔL/L0 : ≤-30%) @ ambient temp. 25℃

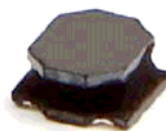
I_{rms} : Based on temperature rise (ΔT : 40℃ typ.)



SMD Power Inductors

HPC2410/12 Series A Type

Shielded Low Profile Inductors.



遮蔽式低高度功率電感。

Features

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- Simple and original magnetic shield structure.
- Durable structure against drooping impact.
- 100% Lead(Pb)-Free and RoHS compliant.

特徵

- 小型且低高度電感。
- 支援大電流。
- 獨特的磁遮蔽結構。
- 耐落下衝擊之構造。
- 無鉛產品符合 RoHS 需求。

Applications

- For small DC/DC converter.
(cellular Phone, HDD, DVC, DSC, PDA, LCD display etc.)

應用

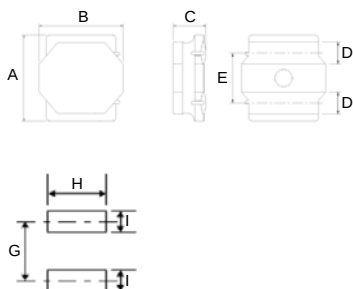
- 可用於手機, HDD, DVC, DSC, PDA, 液晶顯示器等產品的 DC/DC 轉換器。

Part Numbering

HPC 2410 A - 2R2 M
A B C D E

A: Series
B: Dimension A x B
C: Coating Resin Material A
D: Inductance 2R2=2.2uH
E: Inductance Tolerance M=±20%, Y=±30%

Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	G(mm)	H(mm)	I(mm)
HPC2410A	2.4±0.1	2.4±0.1	1.0 max.	0.6±0.2	1.45±0.2	1.45 ref.	2.0 ref.	0.7 ref.
HPC2412A			1.2 max.					

Units: mm

Electrical Characteristics

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHZ) min.	DCR (Ω) ±20%	I sat (A)	I rms (A)
HPC2410A-R68Y	0.68	±30%	1V100K	120	0.060	2.20	1.57
HPC2410A-1R0Y	1.0	±30%	1V100K	106	0.070	1.80	1.41
HPC2410A-1R5M	1.5	±20%	1V100K	94	0.110	1.55	1.16
HPC2410A-2R2M	2.2	±20%	1V100K	77	0.150	1.29	0.97
HPC2410A-3R3M	3.3	±20%	1V100K	56	0.220	1.00	0.77
HPC2410A-4R7M	4.7	±20%	1V100K	50	0.290	0.88	0.67
HPC2410A-6R8M	6.8	±20%	1V100K	43	0.410	0.75	0.57
HPC2410A-100M	10	±20%	1V100K	32	0.690	0.55	0.45
HPC2410A-150M	15	±20%	1V100K	27	1.020	0.47	0.37
HPC2410A-220M	22	±20%	1V100K	22	1.470	0.39	0.30

Note:

I_{sat} : Based on inductance change (ΔL/L0 : ≤-30%) @ ambient temp. 25℃

I_{rms} : Based on temperature rise (ΔT : 40℃ typ.)

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHZ) min.	DCR (Ω) ±20%	I sat (A)	I rms (A)
HPC2412A-1R0Y	1.0	±30%	1V100K	101	0.770	2.35	1.30
HPC2412A-1R5Y	1.5	±30%	1V100K	89	0.100	2.10	1.15
HPC2412A-2R2M	2.2	±20%	1V100K	72	0.140	1.70	1.00
HPC2412A-3R3M	3.3	±20%	1V100K	56	0.225	1.40	0.75
HPC2412A-4R7M	4.7	±20%	1V100K	45	0.300	1.15	0.65
HPC2412A-6R8M	6.8	±20%	1V100K	34	0.420	0.95	0.55
HPC2412A-100M	10	±20%	1V100K	29	0.600	0.81	0.45

Note:

I_{sat} : Based on inductance change (ΔL/L0 : ≤-30%) @ ambient temp. 25℃

I_{rms} : Based on temperature rise (ΔT : 40℃ typ.)

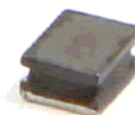


SMD Power Inductors

HPC252012 Series NF Type

Shielded Low Profile Inductors.

遮蔽式低高度功率電感。



Features

- Small and Low profile inductor
- It corresponds to High current
- Simple and original magnetic shield structure.
- Durable structure against drooping impact.
- 100% Lead(Pb)-Free and RoHS compliant.

特徵

- 小型且低高度電感。
- 支援大電流。
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Applications

- For small DC/DC converter.
(cellular Phone, HDD, DVC, DSC, PDA, LCD display etc.)

應用

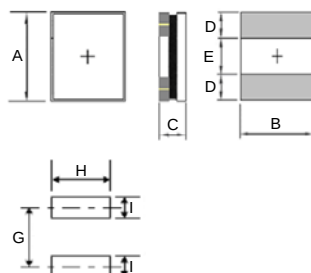
- 可用於手機, HDD, DVC, DSC, PDA, 液晶顯示器等產品的 DC/DC 轉換器。

Part Numbering

HPC 252012 NF - 2R2 M
A B C D E

A: Series
B: Dimension A x B
C: Coating Resin Material NF
D: Inductance 2R2=2.2uH
E: Inductance Tolerance M=±20%, Y=±30%

Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	G(mm)	H(mm)	I(mm)
HPC252012NF	2.4±0.1	2.4±0.1	1.2 max.	0.6±0.2	1.45±0.2	1.75 ref.	2.2 ref.	0.95 ref.

Units: mm

Electrical Characteristics

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) ±20%	I sat (A)	I rms (A)
HPC252012NF-1R0Y	1.0	±30%	0.1V/1M	0.073	2.60	1.70
HPC252012NF-1R5Y	1.5	±30%	0.1V/1M	0.100	2.20	1.45
HPC252012NF-2R2M	2.2	±20%	0.1V/1M	0.129	1.80	1.30
HPC252012NF-3R3M	3.3	±20%	0.1V/1M	0.220	1.40	1.00
HPC252012NF-4R7M	4.7	±20%	0.1V/1M	0.290	1.20	0.85
HPC252012NF-6R8M	6.8	±20%	0.1V/1M	0.370	1.00	0.70
HPC252012NF-100M	10	±20%	0.1V/1M	0.570	0.85	0.60

Note:

I_{sat} : Based on inductance change (ΔL/L0 : ≤-30%) @ ambient temp. 25℃

I_{rms} : Based on temperature rise (ΔT : 40℃ typ.)

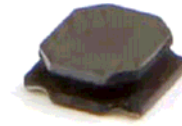


SMD Power Inductors

HPC3010/12/15 Series F/A/C Type

Shielded Low Profile Inductors.

遮蔽式低高度功率電感。



Features

- Small and Low profile inductor
- It corresponds to High current
- Simple and original magnetic shield structure.
- Durable structure against drooping impact.
- 100% Lead(Pb)-Free and RoHS compliant.

特徵

- 小型且低高度電感。
- 支援大電流。
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Applications

- For small DC/DC converter.
(cellular Phone, HDD, DVC, DSC, PDA, LCD display etc.)

應用

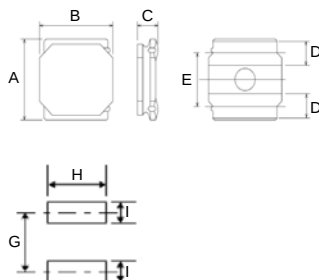
- 可用於手機, HDD, DVC, DSC, PDA, 液晶顯示器等產品的 DC/DC 轉換器。

Part Numbering

HPC 3010 F - 2R2 M
A B C D E

A: Series
B: Dimension A x B
C: Coating Resin Material F/A/C
D: Inductance 2R2=2.2uH
E: Inductance Tolerance M=±20%, Y=±30%

Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	G(mm)	H(mm)	I(mm)
HPC3010F/A	3.0±0.1	3.0±0.1	1.0 max.	0.9±0.2	1.9±0.2	2.2 ref.	2.7 ref.	0.8 ref.
HPC3012F/A/C			1.2 max.					
HPC3015F			1.5 max.					

Units: mm

Electrical Characteristics

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHZ) min.	DCR (Ω) ±20%	I sat (A)	I rms (A)
HPC3010F-1R0Y	1.0	±30%	1V100K	126	0.065	1.30	1.40
HPC3010F-1R5Y	1.5	±30%	1V100K	98	0.080	1.20	1.30
HPC3010F-2R2M	2.2	±20%	1V100K	82	0.095	1.10	1.10
HPC3010F-3R3M	3.3	±20%	1V100K	63	0.140	0.87	0.94
HPC3010F-4R7M	4.7	±20%	1V100K	56	0.190	0.75	0.78
HPC3010F-6R8M	6.8	±20%	1V100K	46	0.300	0.61	0.63
HPC3010F-100M	10	±20%	1V100K	35	0.450	0.50	0.51
HPC3010F-150M	15	±20%	1V100K	30	0.740	0.40	0.40
HPC3010F-220M	22	±20%	1V100K	25	1.030	0.35	0.35
HPC3010F-330M	33	±20%	1V100K	20	1.550	0.26	0.275
HPC3010F-470M	47	±20%	1V100K	17	2.050	0.22	0.235

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHZ) min.	DCR (Ω) ±20%	I sat (A)	I rms (A)
HPC3010A-1R2Y	1.2	±30%	1V100K	120	0.065	1.70	1.48
HPC3010A-1R5Y	1.5	±30%	1V100K	99	0.075	1.44	1.37
HPC3010A-2R2M	2.2	±20%	1V100K	86	0.083	1.30	1.30
HPC3010A-3R3M	3.3	±20%	1V100K	64	0.130	1.00	1.03
HPC3010A-4R7M	4.7	±20%	1V100K	50	0.170	0.85	0.90
HPC3010A-6R8M	6.8	±20%	1V100K	44	0.250	0.70	0.745
HPC3010A-100M	10	±20%	1V100K	34	0.350	0.60	0.62
HPC3010A-150M	15	±20%	1V100K	25	0.550	0.45	0.48
HPC3010A-220M	22	±20%	1V100K	22	0.770	0.38	0.41
HPC3012F-1R0Y	1.0	±30%	1V100K	110	0.050	1.50	1.49
HPC3012F-1R5Y	1.5	±30%	1V100K	92	0.060	1.36	1.40
HPC3012F-2R2M	2.2	±20%	1V100K	70	0.080	1.10	1.20
HPC3012F-3R3M	3.3	±20%	1V100K	55	0.100	0.91	1.05
HPC3012F-4R7M	4.7	±20%	1V100K	48	0.130	0.77	0.98
HPC3012F-6R8M	6.8	±20%	1V100K	40	0.190	0.67	0.74
HPC3012F-100M	10	±20%	1V100K	32	0.290	0.54	0.63
HPC3012F-150M	15	±20%	1V100K	27	0.450	0.44	0.485
HPC3012F-220M	22	±20%	1V100K	22	0.630	0.375	0.42
HPC3012F-330M	33	±20%	1V100K	19	1.030	0.31	0.33
HPC3012F-470M	47	±20%	1V100K	17	1.450	0.25	0.28
HPC3012A-1R0Y	1.0	±30%	1V100K	111	0.048	2.20	1.71
HPC3012A-1R5Y	1.5	±30%	1V100K	95	0.055	1.70	1.60
HPC3012A-2R2M	2.2	±20%	1V100K	78	0.075	1.50	1.37
HPC3012A-3R3M	3.3	±20%	1V100K	61	0.100	1.20	1.21
HPC3012A-4R7M	4.7	±20%	1V100K	50	0.130	1.00	1.06
HPC3012A-6R8M	6.8	±20%	1V100K	43	0.190	0.85	0.89
HPC3012A-100M	10	±20%	1V100K	32	0.270	0.73	0.72
HPC3012A-150M	15	±20%	1V100K	26	0.450	0.53	0.57
HPC3012A-220M	22	±20%	1V100K	22	0.630	0.50	0.50
HPC3012C-1R0Y	1.0	±30%	1V100K	110	0.065	2.50	1.60
HPC3012C-1R5Y	1.5	±30%	1V100K	92	0.075	2.10	1.40
HPC3012C-2R2M	2.2	±20%	1V100K	70	0.120	1.80	1.10
HPC3012C-3R3M	3.3	±20%	1V100K	55	0.150	1.60	1.00
HPC3012C-4R7M	4.7	±20%	1V100K	48	0.190	1.25	0.85
HPC3012C-6R8M	6.8	±20%	1V100K	40	0.300	0.95	0.65
HPC3012C-100M	10	±20%	1V100K	32	0.470	0.80	0.55
HPC3015F-1R0Y	1.0	±30%	1V100K	100	0.030	2.10	2.10
HPC3015F-1R5Y	1.5	±30%	1V100K	87	0.040	1.80	1.82
HPC3015F-2R2M	2.2	±20%	1V100K	64	0.060	1.48	1.50
HPC3015F-3R3M	3.3	±20%	1V100K	49	0.080	1.21	1.23
HPC3015F-4R7M	4.7	±20%	1V100K	40	0.120	1.02	1.04
HPC3015F-6R8M	6.8	±20%	1V100K	36	0.160	0.87	0.88
HPC3015F-100M	10	±20%	1V100K	28	0.230	0.70	0.71
HPC3015F-150M	15	±20%	1V100K	23	0.360	0.56	0.56
HPC3015F-220M	22	±20%	1V100K	20	0.520	0.47	0.47
HPC3015F-330M	33	±20%	1V100K	18	0.840	0.39	0.37
HPC3015F-470M	47	±20%	1V100K	17	1.340	0.32	0.30

Note:

Isat : Based on inductance change (ΔL/L0 : ≤-30%) @ ambient temp. 25℃

Irms : Based on temperature rise (ΔT : 40℃ typ.)



SMD Power Inductors

HPC4010/12/18 Series F/B Type

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Features

- Small and Low profile inductor
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特徵

- 小型且低高度電感。
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- For small DC/DC converter.
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應用

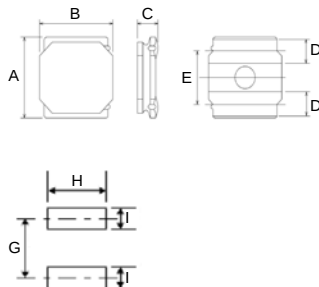
- 可用於手機, HDD, DVC, DSC, PDA, 液晶顯示器等產品的 DC/DC 轉換器。

Part Numbering

HPC 4010 F - 2R2 M
A B C D E

A: Series
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C: Coating Resin Material F/B
D: Inductance 2R2=2.2uH
E: Inductance Tolerance M=±20%, Y=±30%

Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	G(mm)	H(mm)	I(mm)
HPC4010F/B	4.0±0.2	4.0±0.2	1.0 max.	1.1±0.2	2.5±0.2	2.8 ref.	3.7 ref.	1.2 ref.
HPC4012F/B			1.2 max.					
HPC4018F/B			1.8 max.					

Units: mm

Electrical Characteristics

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHZ) min.	DCR (Ω) ±20%	I sat (A)	I rms (A)
HPC4010F-1R0Y	1.0	±30%	1V100K	116	0.100	1.80	1.05
HPC4010F-2R2Y	2.2	±30%	1V100K	73	0.150	1.15	0.89
HPC4010F-3R3M	3.3	±20%	1V100K	58	0.180	1.10	0.82
HPC4010F-4R7M	4.7	±20%	1V100K	47	0.210	0.90	0.75
HPC4010F-6R8M	6.8	±20%	1V100K	38	0.300	0.74	0.62
HPC4010F-100M	10	±20%	1V100K	31	0.380	0.56	0.60
HPC4010F-150M	15	±20%	1V100K	24	0.510	0.47	0.51
HPC4010F-220M	22	±20%	1V100K	19	0.870	0.36	0.40
HPC4010F-330M	33	±20%	1V100K	15	1.54	0.28	0.30
HPC4010F-470M	47	±20%	1V100K	13	1.81	0.24	0.28

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHZ) min.	DCR (Ω) ±20%	I sat (A)	I rms (A)
HPC4010B-1R0Y	1.0	±30%	1V100K	116	0.056	2.00	1.90
HPC4010B-2R2M	2.2	±20%	1V100K	73	0.085	1.20	1.50
HPC4010B-3R3M	3.3	±20%	1V100K	58	0.100	1.10	1.40
HPC4010B-4R7M	4.7	±20%	1V100K	47	0.140	0.95	1.20
HPC4010B-6R8M	6.8	±20%	1V100K	38	0.200	0.80	1.00
HPC4010B-100M	10	±20%	1V100K	31	0.300	0.62	0.75
HPC4010B-150M	15	±20%	1V100K	24	0.430	0.54	0.60
HPC4010B-220M	22	±20%	1V100K	19	0.570	0.45	0.50
HPC4012F-1R0Y	1.0	±30%	1V100K	131	0.060	2.50	1.50
HPC4012F-2R2M	2.2	±20%	1V100K	66	0.090	1.65	1.20
HPC4012F-3R3M	3.3	±20%	1V100K	50	0.130	1.20	0.98
HPC4012F-4R7M	4.7	±20%	1V100K	45	0.140	1.05	0.96
HPC4012F-6R8M	6.8	±20%	1V100K	35	0.180	0.90	0.84
HPC4012F-100M	10	±20%	1V100K	28	0.240	0.74	0.77
HPC4012F-150M	15	±20%	1V100K	23	0.400	0.56	0.60
HPC4012F-220M	22	±20%	1V100K	18	0.480	0.51	0.54
HPC4012F-330M	33	±20%	1V100K	15	0.810	0.40	0.42
HPC4012F-470M	47	±20%	1V100K	12	1.00	0.35	0.37
HPC4012B-1R0Y	1.0	±30%	1V100K	100	0.042	2.80	2.20
HPC4012B-2R2M	2.2	±20%	1V100K	70	0.060	1.65	1.90
HPC4012B-3R3M	3.3	±20%	1V100K	60	0.070	1.40	1.70
HPC4012B-4R7M	4.7	±20%	1V100K	45	0.095	1.20	1.50
HPC4012B-6R8M	6.8	±20%	1V100K	35	0.125	0.90	1.30
HPC4012B-100M	10	±20%	1V100K	30	0.170	0.80	1.10
HPC4012B-150M	15	±20%	1V100K	24	0.260	0.65	0.75
HPC4012B-220M	22	±20%	1V100K	18	0.400	0.50	0.62
HPC4018F-1R0Y	1.0	±30%	1V100K	80	0.030	4.00	1.83
HPC4018F-2R2M	2.2	±20%	1V100K	52	0.060	2.70	1.44
HPC4018F-3R3M	3.3	±20%	1V100K	44	0.070	2.00	1.23
HPC4018F-4R7M	4.7	±20%	1V100K	34	0.090	1.70	1.20
HPC4018F-6R8M	6.8	±20%	1V100K	29	0.110	1.45	1.06
HPC4018F-100M	10	±20%	1V100K	24	0.180	1.20	0.84
HPC4018F-150M	15	±20%	1V100K	19	0.250	0.94	0.65
HPC4018F-220M	22	±20%	1V100K	16	0.360	0.80	0.59
HPC4018F-330M	33	±20%	1V100K	12	0.530	0.65	0.49
HPC4018F-470M	47	±20%	1V100K	10	0.650	0.57	0.42
HPC4018F-680M	68	±20%	1V100K	8.3	1.00	0.47	0.32
HPC4018F-101M	100	±20%	1V100K	6.5	1.50	0.40	0.27
HPC4018F-151M	150	±20%	1V100K	5.5	2.50	0.31	0.22
HPC4018F-221M	220	±20%	1V100K	4.0	4.00	0.27	0.17
HPC4018B-1R0Y	1.0	±30%	1V100K	90	0.027	4.00	3.20
HPC4018B-2R2M	2.2	±20%	1V100K	60	0.042	3.00	2.20
HPC4018B-3R3M	3.3	±20%	1V100K	45	0.055	2.30	2.00
HPC4018B-4R7M	4.7	±20%	1V100K	35	0.070	2.00	1.70
HPC4018B-6R8M	6.8	±20%	1V100K	30	0.098	1.60	1.45
HPC4018B-100M	10	±20%	1V100K	25	0.150	1.30	1.20
HPC4018B-150M	15	±20%	1V100K	18	0.210	1.10	0.85
HPC4018B-220M	22	±20%	1V100K	15	0.290	0.90	0.72
HPC4018B-330M	33	±20%	1V100K	12	0.460	0.70	0.55

Note:

Isat : Based on inductance change (△L/L0 : ≤-30%) @ ambient temp. 25℃

Irms : Based on temperature rise (△T : 40℃ typ.)



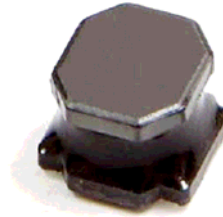
SMD Power Inductors

HPC5010/12/14/20/24/40

Series F/B Type

Shielded Low Profile Inductors.

遮蔽式低高度功率電感。



Features

- Small and Low profile inductor
- It corresponds to High current
- Simple and original magnetic shield structure.
- Durable structure against drooping impact.
- 100% Lead(Pb)-Free and RoHS compliant.

特徵

- 小型且低高度電感。
- 支援大電流。
- 獨特的磁遮蔽結構。
- 耐落下衝擊之構造。
- 無鉛產品符合 RoHS 需求。

Applications

- For small DC/DC converter.
(cellular Phone, HDD, DVC, DSC, PDA, LCD display etc.)

應用

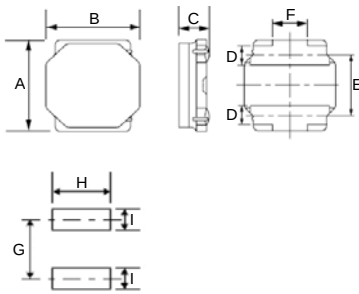
- 可用於手機, HDD, DVC, DSC, PDA, 液晶顯示器等產品的 DC/DC 轉換器。

Part Numbering

HPC 5010 B - 2R2 M
A B C D E

A: Series
B: Dimension A x B
C: Coating Resin Material F/B
D: Inductance 2R2=2.2uH
E: Inductance Tolerance M=±20%, Y=±30%

Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	I(mm)
HPC5010B	4.9±0.2	4.9±0.2	1.0 max.	1.2±0.2	3.3±0.2	1.3 ref.	3.6 ref.	4.0 ref.	1.5 ref.
HPC5012B			1.2 max.						
HPC5014B			1.4 max.						
HPC5020B			2.0 max.						
HPC5024B			2.4 max.						
HPC5040F/B			*1 4.1 max. *2 4.0 max.						

*1 1R5~100 Type *2 150~470 Type

Units: mm

Electrical Characteristics

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHZ) min.	DCR (Ω) ±20%	I sat (A)	I rms (A)
HPC5010B-1R0Y	1.0	±30%	1V100K	95	0.070	2.35	1.75
HPC5010B-2R2Y	2.2	±30%	1V100K	65	0.105	1.50	1.40
HPC5010B-3R3M	3.3	±20%	1V100K	42	0.125	1.40	1.25
HPC5010B-4R7M	4.7	±20%	1V100K	37	0.145	1.20	1.15
HPC5010B-6R8M	6.8	±20%	1V100K	33	0.185	1.00	1.00
HPC5010B-100M	10	±20%	1V100K	23	0.250	0.85	0.90
HPC5010B-150M	15	±20%	1V100K	19	0.400	0.68	0.65
HPC5010B-220M	22	±20%	1V100K	15	0.600	0.55	0.45
HPC5012B-1R0Y	1.0	±30%	1V100K	100	0.053	4.50	2.30
HPC5012B-1R5Y	1.5	±30%	1V100K	86	0.070	3.80	2.20
HPC5012B-2R2M	2.2	±20%	1V100K	70	0.085	3.10	2.00
HPC5012B-3R3M	3.3	±20%	1V100K	48	0.160	2.40	1.45
HPC5012B-4R7M	4.7	±20%	1V100K	40	0.180	2.20	1.40
HPC5012B-6R8M	6.8	±20%	1V100K	36	0.260	1.70	1.10
HPC5012B-100M	10	±20%	1V100K	26	0.420	1.40	0.85
HPC5012B-150M	15	±20%	1V100K	22	0.670	1.20	0.64

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHZ) min.	DCR (Ω) ±20%	I sat (A)	I rms (A)
HPC5014B-1R2Y	1.2	±30%	1V100K	86	0.045	3.80	2.40
HPC5014B-2R2Y	2.2	±30%	1V100K	56	0.065	2.80	2.00
HPC5014B-3R3Y	3.3	±30%	1V100K	48	0.080	2.35	1.70
HPC5014B-4R7Y	4.7	±30%	1V100K	41	0.100	2.05	1.40
HPC5014B-6R8M	6.8	±20%	1V100K	33	0.150	1.60	1.20
HPC5014B-100M	10	±20%	1V100K	27	0.200	1.40	1.05
HPC5020B-1R0Y	1.0	±30%	1V100K	81	0.021	4.00	3.60
HPC5020B-1R5Y	1.5	±30%	1V100K	68	0.026	3.35	3.20
HPC5020B-2R2Y	2.2	±30%	1V100K	57	0.035	2.90	2.90
HPC5020B-3R3Y	3.3	±30%	1V100K	46	0.048	2.40	2.40
HPC5020B-4R7M	4.7	±20%	1V100K	37	0.060	2.00	2.00
HPC5020B-6R8M	6.8	±20%	1V100K	30	0.090	1.60	1.65
HPC5020B-100M	10	±20%	1V100K	24	0.120	1.30	1.45
HPC5020B-150M	15	±20%	1V100K	20	0.165	1.10	1.20
HPC5020B-220M	22	±20%	1V100K	17	0.260	0.90	1.00
HPC5024B-1R0Y	1.0	±30%	1V100K	85	0.016	5.80	4.40
HPC5024B-1R5Y	1.5	±30%	1V100K	67	0.022	5.20	3.60
HPC5024B-2R2Y	2.2	±30%	1V100K	51	0.029	4.10	3.10
HPC5024B-3R3Y	3.3	±30%	1V100K	41	0.043	3.10	2.40
HPC5024B-4R7M	4.7	±20%	1V100K	37	0.055	2.70	2.00
HPC5024B-6R8M	6.8	±20%	1V100K	28	0.080	2.20	1.60
HPC5024B-100M	10	±20%	1V100K	21	0.125	1.70	1.20
HPC5024B-150M	15	±20%	1V100K	18	0.170	1.40	1.00
HPC5024B-220M	22	±20%	1V100K	15	0.230	1.20	0.82
HPC5024B-330M	33	±20%	1V100K	11	0.370	1.00	0.63
HPC5040F-1R5Y	1.5	±30%	1V100K	60	0.020	6.00	3.60
HPC5040F-2R2Y	2.2	±30%	1V100K	42	0.022	4.60	3.50
HPC5040F-3R3Y	3.3	±30%	1V100K	32	0.027	3.80	3.30
HPC5040F-4R7Y	4.7	±30%	1V100K	28	0.029	3.30	3.10
HPC5040F-6R8M	6.8	±20%	1V100K	21	0.049	2.60	2.30
HPC5040F-100M	10	±20%	1V100K	18	0.056	2.30	2.10
HPC5040F-150M	15	±20%	1V100K	13	0.080	2.00	1.80
HPC5040F-220M	22	±20%	1V100K	9	0.126	1.60	1.40
HPC5040F-330M	33	±20%	1V100K	7	0.180	1.30	1.20
HPC5040F-470M	47	±20%	1V100K	6	0.310	1.10	0.90
HPC5040B-1R5Y	1.5	±30%	1V100K	60	0.017	6.40	4.50
HPC5040B-2R2Y	2.2	±30%	1V100K	42	0.022	5.00	3.70
HPC5040B-3R3Y	3.3	±30%	1V100K	32	0.027	4.00	3.30
HPC5040B-4R7Y	4.7	±30%	1V100K	28	0.029	3.30	3.10
HPC5040B-6R8M	6.8	±20%	1V100K	21	0.049	2.80	2.40
HPC5040B-100M	10	±20%	1V100K	18	0.056	2.30	2.10
HPC5040B-150M	15	±20%	1V100K	13	0.080	2.00	1.80
HPC5040B-220M	22	±20%	1V100K	9	0.126	1.50	1.40
HPC5040B-330M	33	±20%	1V100K	7	0.180	1.30	1.20
HPC5040B-470M	47	±20%	1V100K	6	0.310	1.10	0.90

Note:

Isat : Based on inductance change (△L/L0 : ≤-30%) @ ambient temp. 25℃

Irms : Based on temperature rise (△T : 40℃ typ.)



SMD Power Inductors

HPC6010/12/14/20/28/45

Series F/B Type

Shielded Low Profile Inductors.

遮蔽式低高度功率電感。



Features

- Small and Low profile inductor
- It corresponds to High current
- Simple and original magnetic shield structure.
- Durable structure against drooping impact.
- 100% Lead(Pb)-Free and RoHS compliant.

特徵

- 小型且低高度電感。
- 支援大電流。
- 獨特的磁遮蔽結構。
- 耐落下衝擊之構造。
- 無鉛產品符合 RoHS 需求。

Applications

- For small DC/DC converter.
(cellular Phone, HDD, DVC, DSC, PDA, LCD display etc.)

應用

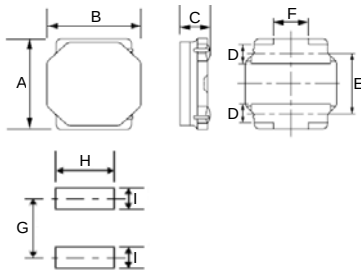
- 可用於手機, HDD, DVC, DSC, PDA, 液晶顯示器等產品的 DC/DC 轉換器。

Part Numbering

HPC 6010 B - 2R2 M
A B C D E

A: Series
B: Dimension A x B
C: Coating Resin Material F/B
D: Inductance 2R2=2.2uH
E: Inductance Tolerance M=±20%, Y=±30%

Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	I(mm)
HPC6010B	6.0±0.2	6.0±0.2	1.0 max.	1.35±0.2	4.0±0.2	2.3 ref.	4.7 ref.	5.7 ref.	1.6 ref.
HPC6012F/B			1.2 max.						
HPC6014B			1.4 max.						
HPC6020F/B			2.0 max.						
HPC6028F/B			2.8 max.						
HPC6045F/B			4.5 max.						

Units: mm

Electrical Characteristics

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHZ) min.	DCR (Ω) ±20%	I sat (A)	I rms (A)
HPC6010B-1R5M	1.5	±20%	1V100K	77	0.090	2.40	1.90
HPC6010B-2R2M	2.2	±20%	1V100K	56	0.110	1.90	1.70
HPC6010B-3R3M	3.3	±20%	1V100K	42	0.135	1.60	1.50
HPC6010B-4R7M	4.7	±20%	1V100K	36	0.165	1.30	1.40
HPC6010B-6R8M	6.8	±20%	1V100K	30	0.220	1.20	1.20
HPC6010B-100M	10	±20%	1V100K	25	0.270	1.00	1.10
HPC6010B-220M	22	±20%	1V100K	12	0.580	0.65	0.70

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHZ) min.	DCR (Ω) ±20%	I sat (A)	I rms (A)
HPC6012F-2R5Y	2.5	±30%	1V100K	45	0.090	2.10	1.73
HPC6012F-4R0Y	4.0	±30%	1V100K	39	0.105	1.80	1.57
HPC6012F-5R3M	5.3	±20%	1V100K	34	0.125	1.50	1.40
HPC6012F-6R8M	6.8	±20%	1V100K	30	0.165	1.30	1.18
HPC6012F-100M	10	±20%	1V100K	22	0.235	1.00	1.00
HPC6012F-150M	15	±20%	1V100K	18	0.330	0.80	0.79
HPC6012F-220M	22	±20%	1V100K	12	0.530	0.76	0.63
HPC6012F-330M	33	±20%	1V100K	8	0.700	0.59	0.53
HPC6012F-470M	47	±20%	1V100K	6	1.05	0.52	0.46
HPC6012F-680M	68	±20%	1V100K	3	1.35	0.44	0.41
HPC6012F-101M	100	±20%	1V100K	1	2.18	0.35	0.32
HPC6012B-2R5Y	2.5	±30%	1V100K	45	0.090	2.10	1.80
HPC6012B-3R3Y	3.3	±30%	1V100K	42	0.105	1.80	1.70
HPC6012B-4R7M	4.7	±20%	1V100K	36	0.125	1.60	1.55
HPC6012B-5R3M	5.3	±20%	1V100K	34	0.125	1.50	1.55
HPC6012B-6R8M	6.8	±20%	1V100K	30	0.165	1.30	1.35
HPC6012B-100M	10	±20%	1V100K	22	0.200	1.00	1.20
HPC6012B-150M	15	±20%	1V100K	18	0.295	0.80	0.80
HPC6012B-220M	22	±20%	1V100K	12	0.465	0.76	0.65
HPC6012B-330M	33	±20%	1V100K	8	0.580	0.59	0.55
HPC6012B-470M	47	±20%	1V100K	6	0.965	0.52	0.46
HPC6012B-680M	68	±20%	1V100K	3	1.160	0.44	0.41
HPC6012B-101M	100	±20%	1V100K	1	1.670	0.35	0.32
HPC6014B-1R2Y	1.2	±30%	1V100K	77	0.042	4.10	2.75
HPC6014B-2R2Y	2.2	±30%	1V100K	61	0.055	3.00	2.30
HPC6014B-3R3M	3.3	±20%	1V100K	41	0.075	2.50	2.00
HPC6014B-4R7M	4.7	±20%	1V100K	36	0.090	2.00	1.90
HPC6014B-6R8M	6.8	±20%	1V100K	30	0.115	1.70	1.65
HPC6014B-100M	10	±20%	1V100K	24	0.140	1.40	1.40
HPC6014B-150M	15	±20%	1V100K	20	0.210	1.15	1.20
HPC6014B-220M	22	±20%	1V100K	16	0.300	0.95	1.00
HPC6020F-R80Y	0.8	±30%	1V100K	110	0.020	5.50	3.80
HPC6020F-1R5Y	1.5	±30%	1V100K	93	0.026	4.00	3.20
HPC6020F-2R2Y	2.2	±30%	1V100K	73	0.034	3.20	2.70
HPC6020F-3R3Y	3.3	±30%	1V100K	55	0.040	2.80	2.60
HPC6020F-4R7Y	4.7	±30%	1V100K	43	0.058	2.40	2.00
HPC6020F-6R8Y	6.8	±30%	1V100K	30	0.085	2.00	1.80
HPC6020F-100M	10	±20%	1V100K	18	0.125	1.70	1.40
HPC6020F-220M	22	±20%	1V100K	11	0.290	1.05	0.95
HPC6020B-R80Y	0.8	±30%	1V100K	110	0.020	6.40	4.10
HPC6020B-1R5Y	1.5	±30%	1V100K	93	0.026	4.30	3.60
HPC6020B-2R2Y	2.2	±30%	1V100K	73	0.034	3.20	2.90
HPC6020B-3R3Y	3.3	±30%	1V100K	55	0.040	2.80	2.75
HPC6020B-4R7Y	4.7	±30%	1V100K	43	0.058	2.40	2.15
HPC6020B-6R8Y	6.8	±30%	1V100K	30	0.085	2.00	1.80
HPC6020B-100M	10	±20%	1V100K	18	0.125	1.90	1.50
HPC6020B-220M	22	±20%	1V100K	11	0.290	1.25	0.95

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHZ) min.	DCR (Ω) ±30%	I sat (A)	I rms (A)
HPC6028F-R90Y	0.9	±30%	1V100K	90	0.013	6.60	4.60
HPC6028F-1R5Y	1.5	±30%	1V100K	78	0.016	5.00	4.20
HPC6028F-2R2Y	2.2	±30%	1V100K	68	0.020	4.20	3.70
HPC6028F-3R0Y	3.0	±30%	1V100K	55	0.023	3.60	3.40
HPC6028F-4R7M	4.7	±20%	1V100K	39	0.031	2.70	3.00
HPC6028F-6R0M	6.0	±20%	1V100K	30	0.040	2.50	2.50
HPC6028F-100M	10	±20%	1V100K	20	0.065	1.90	1.90
HPC6028F-150M	15	±20%	1V100K	17	0.095	1.60	1.80
HPC6028F-220M	22	±20%	1V100K	12	0.135	1.30	1.40
HPC6028F-330M	33	±20%	1V100K	10	0.220	1.10	1.10
HPC6028F-470M	47	±20%	1V100K	8	0.300	0.95	0.92
HPC6028F-680M	68	±20%	1V100K	5	0.420	0.76	0.77
HPC6028F-101M	100	±20%	1V100K	3	0.600	0.62	0.66
HPC6028B-R90Y	0.9	±30%	1V100K	90	0.013	6.70	4.60
HPC6028B-1R5Y	1.5	±30%	1V100K	78	0.016	5.10	4.20
HPC6028B-2R2Y	2.2	±30%	1V100K	68	0.020	4.20	3.70
HPC6028B-3R0Y	3.0	±30%	1V100K	55	0.023	3.60	3.40
HPC6028B-4R7M	4.7	±20%	1V100K	39	0.031	2.70	3.00
HPC6028B-6R0M	6.0	±20%	1V100K	30	0.040	2.50	2.50
HPC6028B-100M	10	±20%	1V100K	20	0.065	1.90	1.90
HPC6028B-150M	15	±20%	1V100K	17	0.095	1.60	1.80
HPC6028B-220M	22	±20%	1V100K	12	0.135	1.30	1.40
HPC6028B-330M	33	±20%	1V100K	10	0.220	1.10	1.10
HPC6028B-470M	47	±20%	1V100K	8	0.300	1.00	0.92
HPC6028B-680M	68	±20%	1V100K	5	0.420	0.80	0.77
HPC6028B-101M	100	±20%	1V100K	3	0.600	0.65	0.66
HPC6045F-1R0Y	1.0	±30%	1V100K	110	0.014	8.50	4.20
HPC6045F-1R3Y	1.3	±30%	1V100K	95	0.016	8.00	4.00
HPC6045F-1R8Y	1.8	±30%	1V100K	80	0.018	7.00	3.70
HPC6045F-2R3Y	2.3	±30%	1V100K	60	0.021	6.00	3.50
HPC6045F-3R0Y	3.0	±30%	1V100K	45	0.024	5.00	3.20
HPC6045F-4R5M	4.5	±20%	1V100K	25	0.031	4.00	3.00
HPC6045F-6R3M	6.3	±20%	1V100K	15	0.038	3.80	2.80
HPC6045F-100M	10	±20%	1V100K	12	0.047	3.00	2.50
HPC6045F-150M	15	±20%	1V100K	10	0.077	2.30	1.90
HPC6045F-220M	22	±20%	1V100K	7	0.115	1.90	1.50
HPC6045F-330M	33	±20%	1V100K	6	0.145	1.50	1.40
HPC6045F-470M	47	±20%	1V100K	5	0.220	1.30	1.10
HPC6045F-680M	68	±20%	1V100K	4	0.330	1.00	0.90
HPC6045F-101M	100	±20%	1V100K	3	0.500	0.80	0.70
HPC6045B-1R0Y	1.0	±30%	1V100K	110	0.014	9.80	4.50
HPC6045B-1R3Y	1.3	±30%	1V100K	95	0.016	8.20	4.20
HPC6045B-1R8Y	1.8	±30%	1V100K	80	0.019	7.20	3.90
HPC6045B-2R3Y	2.3	±30%	1V100K	60	0.022	6.40	3.60
HPC6045B-3R0Y	3.0	±30%	1V100K	45	0.024	5.60	3.30
HPC6045B-4R5M	4.5	±20%	1V100K	25	0.030	4.40	3.10
HPC6045B-6R3M	6.3	±20%	1V100K	15	0.036	3.60	3.00
HPC6045B-100M	10	±20%	1V100K	12	0.046	3.10	2.40
HPC6045B-150M	15	±20%	1V100K	10	0.070	2.50	1.90
HPC6045B-220M	22	±20%	1V100K	7	0.107	2.00	1.60
HPC6045B-330M	33	±20%	1V100K	6	0.141	1.65	1.40
HPC6045B-470M	47	±20%	1V100K	5	0.211	1.40	1.15
HPC6045B-680M	68	±20%	1V100K	4	0.304	1.10	0.95
HPC6045B-101M	100	±20%	1V100K	3	0.466	0.90	0.75

Note:

Isat : Based on inductance change (ΔL/L0 : ≤-30%) @ ambient temp. 25℃

Irms : Based on temperature rise (ΔT : 40℃ typ.)

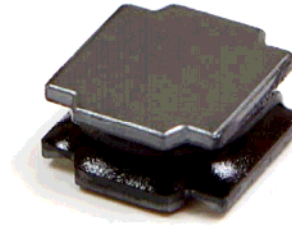


SMD Power Inductors

HPC8030/40 Series F/B Type

Shielded Low Profile Inductors.

遮蔽式低高度功率電感。



Features

- Small and Low profile inductor
- It corresponds to High current
- Simple and original magnetic shield structure.
- Durable structure against drooping impact.
- 100% Lead(Pb)-Free and RoHS compliant.

特徵

- 小型且低高度電感。
- 支援大電流。
- 獨特的磁遮蔽結構。
- 耐落下衝擊之構造。
- 無鉛產品符合 RoHS 需求。

Applications

- For small DC/DC converter.
(cellular Phone, HDD, DVC, DSC, PDA, LCD display etc.)

應用

- 可用於手機, HDD, DVC, DSC, PDA, 液晶顯示器等產品的 DC/DC 轉換器。

Part Numbering

HPC 8030 F - 2R2 M
A B C D E

A: Series
B: Dimension A x B
C: Coating Resin Material F/B
D: Inductance 2R2=2.2uH
E: Inductance Tolerance M=±20%, Y=±30%

Dimensions

Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	G(mm)	H(mm)	I(mm)
HPC8030B	8.0±0.2	8.0±0.2	3.0 max.	1.6±0.3	5.6±0.3	5.6 ref.	7.5 ref.	1.8 ref.
HPC8040F/B			4.2 max. 4.0 max					

*1 0R9~6R8 Type *2 100~101 Type Units: mm

Electrical Characteristics

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHZ) min.	DCR (Ω) ±30%	I sat (A)	I rms (A)
HPC8030B-1R0Y	1.0	±30%	1V100K	120	0.009	7.80	6.20
HPC8030B-1R5Y	1.5	±30%	1V100K	80	0.012	6.20	5.30
HPC8030B-2R2Y	2.2	±30%	1V100K	60	0.015	4.90	4.80
HPC8030B-3R3M	3.3	±20%	1V100K	50	0.019	4.20	4.30
HPC8030B-4R7M	4.7	±20%	1V100K	40	0.022	3.60	4.00
HPC8030B-6R8M	6.8	±20%	1V100K	32	0.029	3.00	3.40
HPC8030B-100M	10	±20%	1V100K	27	0.033	2.40	3.00
HPC8030B-150M	15	±20%	1V100K	20	0.060	2.00	2.20
HPC8030B-220M	22	±20%	1V100K	16	0.070	1.75	1.90
HPC8030B-330M	33	±20%	1V100K	13	0.120	1.30	1.50
HPC8030B-470M	47	±20%	1V100K	11	0.170	1.10	1.30

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	SRF (MHZ) min.	DCR (Ω) ±30%	I sat (A)	I rms (A)
HPC8040F-R90Y	0.9	±30%	1V100K	85	0.006	11.00	7.80
HPC8040F-1R4Y	1.4	±30%	1V100K	63	0.007	9.00	7.00
HPC8040F-2R0Y	2.0	±30%	1V100K	50	0.009	7.40	6.30
HPC8040F-3R6Y	3.6	±30%	1V100K	34	0.015	5.30	4.90
HPC8040F-4R7Y	4.7	±30%	1V100K	30	0.018	4.70	4.10
HPC8040F-6R8Y	6.8	±30%	1V100K	24	0.025	4.00	3.70
HPC8040F-100M	10	±20%	1V100K	22	0.034	3.40	3.10
HPC8040F-150M	15	±20%	1V100K	16	0.050	2.70	2.40
HPC8040F-220M	22	±20%	1V100K	13	0.066	2.20	2.20
HPC8040F-330M	33	±20%	1V100K	12	0.100	1.90	1.70
HPC8040F-470M	47	±20%	1V100K	8	0.150	1.50	1.40
HPC8040F-680M	68	±20%	1V100K	7	0.230	1.20	1.10
HPC8040F-101M	100	±20%	1V100K	6	0.290	1.00	1.00
HPC8040B-R90Y	0.9	±30%	1V100K	85	0.006	13.00	7.80
HPC8040B-1R4Y	1.4	±30%	1V100K	63	0.007	10.00	7.00
HPC8040B-2R0Y	2.0	±30%	1V100K	50	0.009	8.10	6.30
HPC8040B-3R6Y	3.6	±30%	1V100K	34	0.015	6.40	4.90
HPC8040B-4R7Y	4.7	±30%	1V100K	30	0.018	5.40	4.10
HPC8040B-6R8Y	6.8	±30%	1V100K	24	0.025	4.40	3.70
HPC8040B-100M	10	±20%	1V100K	22	0.034	3.80	3.10
HPC8040B-150M	15	±20%	1V100K	16	0.050	2.90	2.40
HPC8040B-220M	22	±20%	1V100K	13	0.066	2.40	2.20

Note:

Isat : Based on inductance change ($\Delta L/L0$: $\leq -30\%$) @ ambient temp. 25℃

Irms : Based on temperature rise (ΔT : 40℃ typ.)