

HPPC Series



HPPC series is low profile molding power choke with low RDC and high Q factor, so the efficiency performance is also superior. Its molded magnetic shielded type is suitable for high-density mounting and ultra-low buzz noise. Soldering conditions can be easily confirmed when mounting onto the board. This series also provides customers with embossed carrier type packaging for automatic mounting machine.

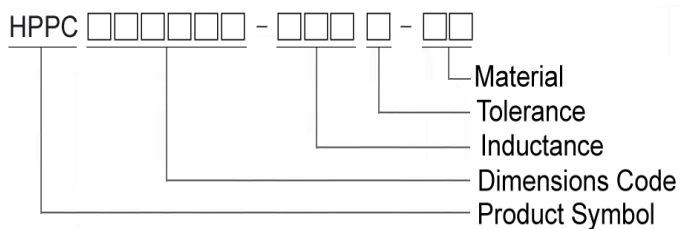
Features

- RoHS, Halogen Free and REACH Compliance
- Low RDC
- High Q
- High Efficiency
- Ultra-low buzz noise

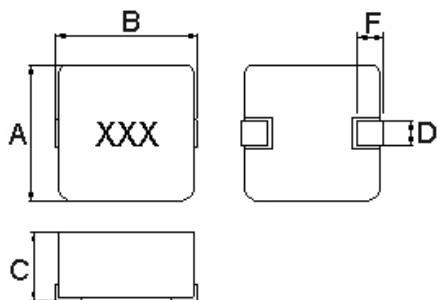
Applications

- Laptops and PCs
- Switches and servers
- Base stations
- DC/DC converters

Product Identification



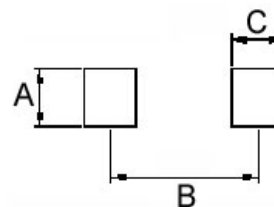
Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D	F
06030	6.8±0.2	7.3±0.2	2.8±0.2	3.0±0.3	1.6±0.3
10040	10.2±0.3	11.3±0.3	3.8±0.2	3.0±0.5	2.5±0.5

Recommended Pattern



Dimensions in mm

TYPE	A	B	C
06030	3.5	6.05	2.35
10040	4.0	9.50	3.50

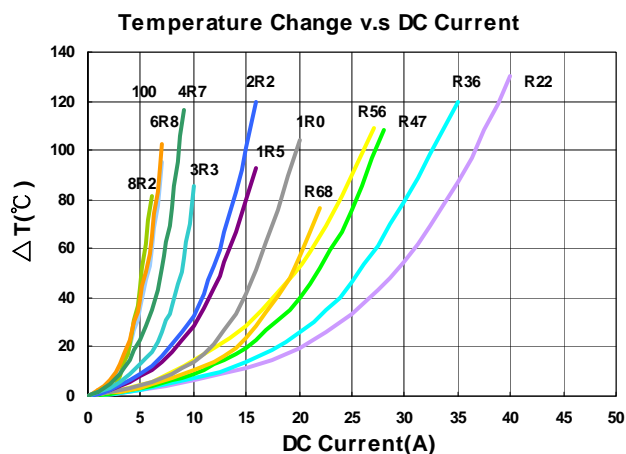
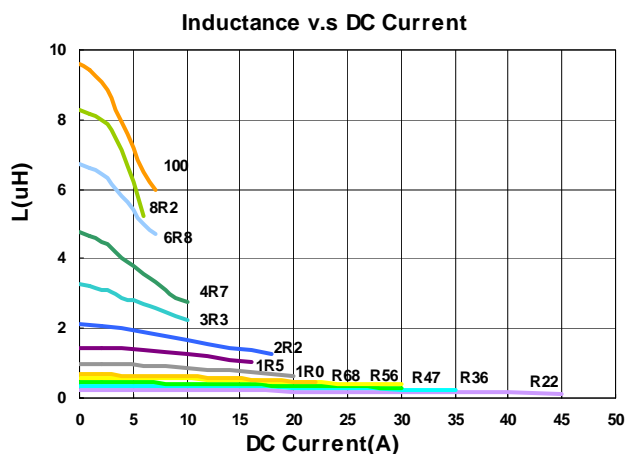
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
HPPC06030-R22M-Q8	0.22	20	1	2.0(1.8)	35(40)	25(27)	R22
HPPC06030-R36M-Q8	0.36	20	1	2.6(2.3)	27(32)	22(25)	R36
HPPC06030-R47M-Q8	0.47	20	1	2.9(3.3)	25(27)	19(20)	R47
HPPC06030-R56M-Q8	0.56	20	1	3.9(3.5)	23(25)	17(18)	R56
HPPC06030-R68M-Q8	0.68	20	1	4.2(3.8)	18(20)	16(17)	R68
HPPC06030-1R0M-Q8	1.0	20	1	5.3(4.8)	17(19)	14(15)	1R0
HPPC06030-1R5M-Q8	1.5	20	1	7.7(7.0)	15(17)	11(11.5)	1R5
HPPC06030-2R2M-Q8	2.2	20	1	9.4(8.5)	12(12.5)	10.5(11)	2R2
HPPC06030-3R3M-Q8	3.3	20	1	15(13.5)	9.0(9.5)	8.0(8.5)	3R3
HPPC06030-4R7M-Q8	4.7	20	1	22.0(20)	6.5(7.0)	6.0(6.5)	4R7
HPPC06030-6R8M-Q8	6.8	20	1	38.5(35)	6.5(7.0)	5.3(5.8)	6R8
HPPC06030-8R2M-Q8	8.2	20	1	40.0(36)	5.0(5.5)	5.0(5.5)	8R2
HPPC06030-100M-Q8	10	20	1	47.0(43)	5.0(5.5)	4.8(5.3)	100

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value with current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :
 L : WK 3260B or WK 6500P, 1MHz 0.5V
 RDC : CHEN HWA 502 or CHEN HWA 46502B
 I rms : CHROMA 1810

Test Instruments : WK3260B Impedance / Material Analyzer



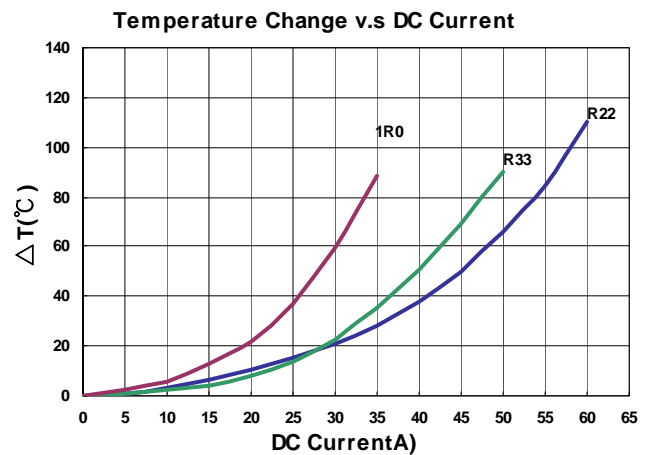
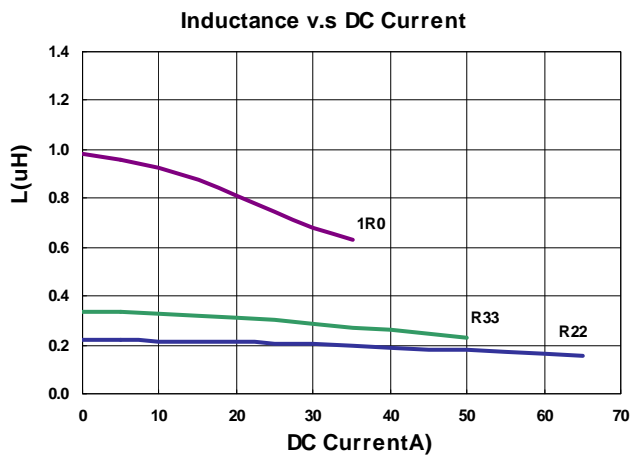
Electrical Characteristics

Part Number	Inductance (uH)	Tolerance (±%)	Test Frequency (MHz)	RDC(mΩ) Max(Typ.)	Isat(A) Max(Typ.)	Irms(A) Max(Typ.)	Marking
HPPC10040-R22M-Q8	0.22	20	1	0.54(0.45)	55(60)	40(42)	R22
HPPC10040-R33M-Q8	0.33	20	1	0.68(0.62)	45(50)	32(35)	R33
HPPC10040-1R0M-Q8	1.0	20	1	2.40(2.20)	26(30)	23(25)	1R0

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

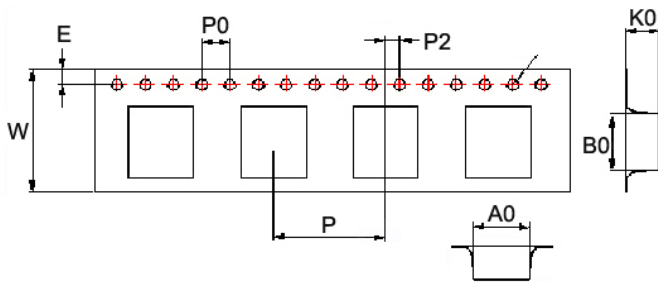
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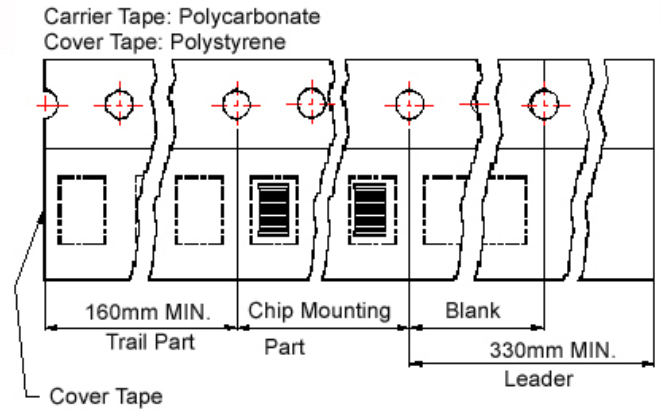


Packaging Specifications

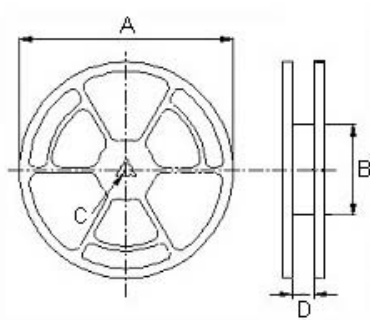
Tape Dimensions



Tape Material



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	PCS / REEL
06030	7.0	7.6	3.4	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
10040	10.6	11.7	4.25	1.55	1.75	24	16	4	2	330	100	13	24.4	500