



Chilisin Electronics Singapore Pte Ltd

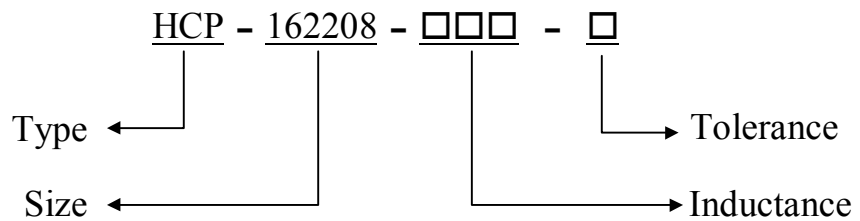
High Current Power Chokes, HCP Series

Feature:

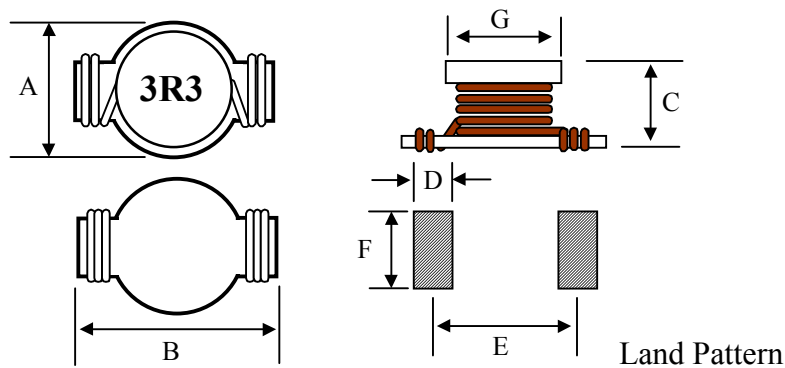


These new HCP Series is specially designed for the High Current, Low voltage DC-DC Converter applications. The High Current and low voltage application is very much suitable for the latest Generation of 3.3v Microprocessors. It has a max height of 8.0mm which is suitable for Note book design. Not forgetting it also has an exceptionally low DC resistance.

Ordering Code:



Dimension in mm:



Type	A	B	C	D	E	F	G
HCP-649005	6.40 max	8.89 max	5.00 max	1.91	8.89	4.06	4.8 ± 0.3
HCP-991363	9.91 max	13.21 max	6.35 max	2.52	10.41	4.06	8.38 ± 0.3
HCP-162208	16.26 max	22.35 max	8.00 max	3.18	17.53	8.64	12.7 typ

Electrical:

Type	Inductance	Rated Current
HCP-649005	0.56μH to 47μH	14.0 Amps to 0.87 Amps
HCP-991363	0.33μH to 100μH	20.0 Amps to 1.2 Amps
HCP-162208	0.78μH to 15μH	30 Amps to 8.0 Amps

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ELECTRICAL CHARACTERISTICS

Part Number	Inductance ($\mu\text{H} \pm 20\%$)	DC Resistance ($\text{m}\Omega$ max)	SRF (MHz)	I rms	I sat
HCP-649005-R18M	0.18	3.0	800	10.0	14
HCP-649005-R33M	0.33	4.0	600	7.0	10
HCP-649005-R56M	0.56	10.0	200	6.0	7.7
HCP-649005-1R2M	1.2	17.0	140	4.4	5.3
HCP-649005-2R2M	2.2	35.0	100	3.1	3.5
HCP-649005-3R3M	3.3	40.0	80	2.7	3.0
HCP-649005-4R7M	4.7	54.0	50	2.2	2.6
HCP-649005-6R8M	6.8	80.0	45	1.8	2.2
HCP-649005-100M	10.0	110.0	40	1.5	1.9
HCP-649005-150M	15.0	170.0	30	1.2	1.5
HCP-649005-220M	22.0	250.0	25	1.0	1.2
HCP-649005-330M	33.0	350.0	20	0.82	0.99
HCP-649005-470M	47.0	470.0	15	0.72	0.87

Note: Above are our standard value. Any custom values are welcome

Electrical Testing condition:

- Tested at 100 KHz, 0.1 V rms
- SRF measured using HP4191A LF impedance
- I sat = 10% drop of initial Inductance value
- I rms = ΔT (40°C Typical)
- Electrical specification tested at 25°C
- Operating Temperature range -40°C to +85°C

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ELECTRICAL CHARACTERISTICS

PART NO.	Inductance (μ H) $\pm 20\%$	Test Frequency	RDC (Ω) MAX.	Idc (A)
HCP-991363-R33M	0.33	100 KHz	0.0020	20.0
HCP-991363-R68M	0.68		0.0050	13.0
HCP-991363-1R0M	1.0		0.0060	11.0
HCP-991363-1R5M	1.5		0.0080	9.0
HCP-991363-2R2M	2.2		0.0110	7.8
HCP-991363-2R7M	2.7		0.0120	7.0
HCP-991363-3R3M	3.3		0.0140	6.4
HCP-991363-4R7M	4.7		0.0180	5.4
HCP-991363-6R8M	6.8		0.0202	5.0
HCP-991363-100M	10		0.0267	4.3
HCP-991363-150M	15		0.0410	3.5
HCP-991363-220M	22		0.0617	2.8
HCP-991363-330M	33		0.0917	2.1
HCP-991363-470M	47		0.1388	1.7
HCP-991363-680M	68		0.1787	1.5
HCP-991363-101M	100		0.2707	1.2

Note: Above are our standard value. Any custom values are welcome

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ELECTRICAL CHARACTERISTICS

Part Number	Inductance ($\mu\text{H} \pm 20\%$)	DC Resistance ($\text{m}\Omega$ max)	SRF (MHz)	I rms	I sat
HCP-162208-R78M	0.78	2.6	156	15	30
HCP-162208-1R5M	1.5	4.0	100	15	25
HCP-162208-2R2M	2.2	6.1	75	12	20
HCP-162208-3R3M	3.3	8.6	60	10	17
HCP-162208-3R9M	3.9	10.0	55	9.0	15
HCP-162208-4R7M	4.7	14.0	40	8.4	13
HCP-162208-6R0M	6.0	17.0	35	7.5	12
HCP-162208-7R8M	7.8	18.0	35	7.5	11
HCP-162208-100M	10	26.0	28	6.0	10
HCP-162208-150M	15	32.0	20	4.4	8

Note: Above are our standard value. Any custom values are welcome

Electrical Testing condition:

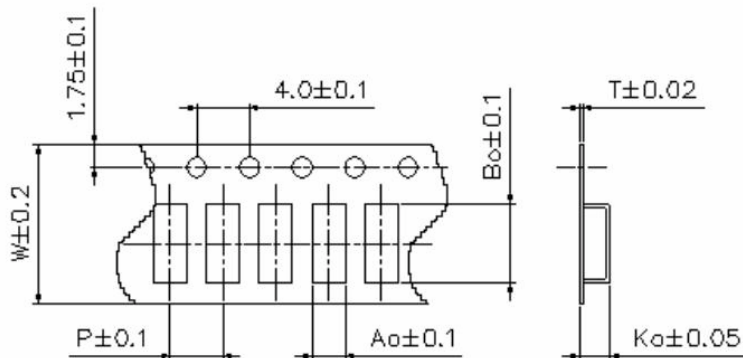
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DIMENSIONS OF TAPE



Series	W	P	A0	B0	K0	T	Quantity	
							7" Reel	13" Reel
HCP-649005	16	8	9.1	6.5	5.4	0.3		1000
HCP-991363	24	12	9.7	13.25	6.8	0.3		1000
HCP-162208	44	24	22.6	16.5	8.3	0.4		250

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