

On-Board Type Coils / Chip Inductors



SMD Type Power Inductors CHTPW Series

CHTP W Series

Unshielded Power Inductors.



■ Features

1. Low profile very effective in space-conscious applications.
2. Low resistance and high energy storage.
3. The products contain no lead and also support lead-free soldering.

■ Applications

Excellent as DC-DC Converter used in notebooks computers, PDA and mobile handphones. Step-up or step-down converters, flash memory.

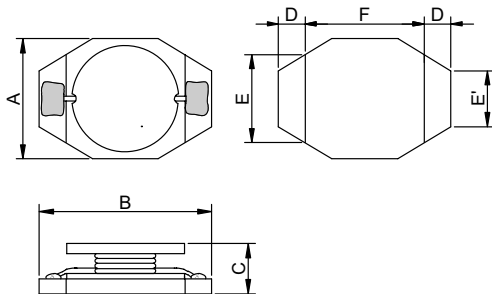
■ Lead Free Part Numbering

CHTPW 3316 F — 101 M

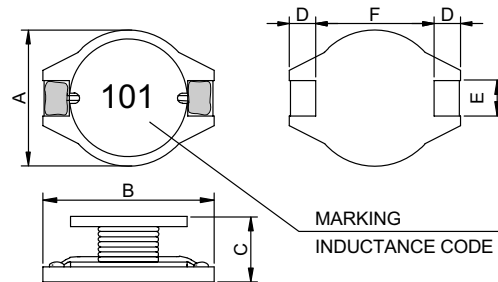
A B C D E

A : Series
 B : Dimension A x C
 C : Lead Free Code
 D : Inductance 101=100uH
 E : Inductance Tolerance K=±10% M=±20%

■ Dimensions



CHTPW 1608



CHTPW 2012, CHTPW 3308, CHTPW 3316
 CHTPW 3340 & CHTPW 5022

Chip size						
Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
CHTP W 1608	4.45 max.	6.60 max.	2.92 max.	1.02 ± 0.2	1.27 ± 0.2	4.32 ± 0.3
CHTP W 2012	8.00 ± 0.2	10.50 ± 0.2	5.00 ± 0.3	2.10 ± 0.2	2.00 ± 0.2	6.00 ± 0.3
CHTP W 3308	10.0 ± 0.2	12.7 ± 0.2	3.00 ± 0.3	2.40 ± 0.2	2.20 ± 0.2	7.60 ± 0.3
CHTP W 3316	10.0 ± 0.2	12.70 ± 0.2	5.00 ± 0.3	2.40 ± 0.2	2.20 ± 0.2	7.60 ± 0.3
CHTP W 3340	10.0 ± 0.2	12.70 ± 0.2	11.0 ± 0.5	2.40 ± 0.2	2.20 ± 0.2	7.60 ± 0.3
CHTP W 5022	15.0 ± 0.3	18.40 ± 0.3	7.00 ± 0.5	2.40 ± 0.2	2.20 ± 0.2	13.30 ± 0.3

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■ CHTPW 1608 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	SRF (MHz) typ.	DCR (Ω) max.	I rms (A)	I sat (A)
CHTPW 1608-1R0M	1.0±20%	0.1V/100K	130.0	0.05	2.90	2.90
CHTPW 1608-1R5M	1.5±20%	0.1V/100K	115.0	0.05	2.80	2.60
CHTPW 1608-2R2M	2.2±20%	0.1V/100K	90.0	0.07	2.40	2.30
CHTPW 1608-3R3M	3.3±20%	0.1V/100K	70.0	0.08	2.00	2.00
CHTPW 1608-4R7M	4.7±20%	0.1V/100K	50.0	0.09	1.50	1.50
CHTPW 1608-6R8M	6.8±20%	0.1V/100K	45.0	0.13	1.40	1.20
CHTPW 1608-100M	10±20%	0.1V/100K	35.0	0.16	1.10	1.10
CHTPW 1608-150M	15±20%	0.1V/100K	30.0	0.23	1.00	0.90
CHTPW 1608-220M	22±20%	0.1V/100K	20.0	0.27	0.80	0.70
CHTPW 1608-330M	33±20%	0.1V/100K	15.0	0.51	0.60	0.58
CHTPW 1608-470M	47±20%	0.1V/100K	14.0	0.64	0.50	0.50
CHTPW 1608-680M	68±20%	0.1V/100K	11.0	0.86	0.40	0.50
CHTPW 1608-101M	100±20%	0.1V/100K	9.0	1.27	0.30	0.31
CHTPW 1608-151M	150±20%	0.1V/100K	6.0	2.00	0.25	0.27
CHTPW 1608-221M	220±20%	0.1V/100K	5.5	3.11	0.20	0.22
CHTPW 1608-331M	330±20%	0.1V/100K	5.0	3.80	0.16	0.18
CHTPW 1608-471M	470±20%	0.1V/100K	4.0	5.06	0.15	0.16
CHTPW 1608-681M	680±20%	0.1V/100K	3.0	9.20	0.12	0.14
CHTPW 1608-102M	1000±20%	0.1V/100K	2.0	13.80	0.07	0.10

Other non standard Inductance value are available to meet your exact requirements

- Note: 1. Inductance measured by LCR Meter HP 4294/HP4291 2. DCR measured by Milliohm meter CH502AC
 3. SRF measured by Network analyzer HP 4294/HP4291 4. SRF is for reference only
 5. Δ Temperature =15°Cmax at I rms 6. Δ LL/L0A=10%typical at I sat

■ CHTPW 2012 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	SRF (MHz) typ.	DCR (Ω) max.	I rms (A)	I sat (A)
CHTPW 2012-3R3M	3.3±20%	0.1V/100K	50.0	0.030	3.70	7.0
CHTPW 2012-4R7M	4.7±20%	0.1V/100K	40.0	0.018	3.30	6.0
CHTPW 2012-6R8M	6.8±20%	0.1V/100K	30.0	0.050	2.70	5.0
CHTPW 2012-100M	10±20%	0.1V/100K	23.0	0.060	2.30	4.0
CHTPW 2012-150M	15±20%	0.1V/100K	20.0	0.080	2.10	3.0
CHTPW 2012-220M	22±20%	0.1V/100K	16.0	0.130	1.60	2.5
CHTPW 2012-330M	33±20%	0.1V/100K	12.0	0.180	1.30	2.0
CHTPW 2012-470M	47±20%	0.1V/100K	11.0	0.260	1.10	1.8
CHTPW 2012-680M	68±20%	0.1V/100K	9.0	0.350	1.00	1.5
CHTPW 2012-101M	100±20%	0.1V/100K	7.0	0.580	0.70	1.0
CHTPW 2012-151M	150±20%	0.1V/100K	5.0	0.750	0.60	0.9
CHTPW 2012-221M	220±20%	0.1V/100K	4.0	1.050	0.50	0.8
CHTPW 2012-331M	330±20%	0.1V/100K	3.5	1.600	0.45	0.6

Other non standard Inductance value are available to meet your exact requirements

- Note: 1. Inductance measured by LCR Meter HP 4294/HP4291 2. DCR measured by Milliohm meter CH502AC
 3. SRF measured by Network analyzer HP 4294/HP4291 4. SRF is for reference only
 5. Δ Temperature =40°Cmax at I rms 6. Δ LL/L0A=10%typical at I sat

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■ CHTPW 3308 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	SRF (MHz) typ.	DCR (Ω) max.	I rms (A)	I sat (A)
CHTPW 3308-100M	10±20%	0.1V/100K	35.0	0.11	2.00	2.40
CHTPW 3308-150M	15±20%	0.1V/100K	33.0	0.15	1.50	2.00
CHTPW 3308-220M	22±20%	0.1V/100K	25.0	0.23	1.30	1.60
CHTPW 3308-330M	33±20%	0.1V/100K	19.0	0.30	1.10	1.40
CHTPW 3308-470M	47±20%	0.1V/100K	14.0	0.39	0.80	1.00
CHTPW 3308-680M	68±20%	0.1V/100K	12.0	0.66	0.70	0.90
CHTPW 3308-101M	100±20%	0.1V/100K	10.0	0.84	0.60	0.70
CHTPW 3308-151M	150±20%	0.1V/100K	8.0	1.20	0.50	0.60
CHTPW 3308-221M	220±20%	0.1V/100K	6.0	1.90	0.40	0.50
CHTPW 3308-331M	330±20%	0.1V/100K	5.0	2.70	0.30	0.40
CHTPW 3308-471M	470±20%	0.1V/100K	4.0	4.00	0.20	0.20
CHTPW 3308-681M	680±20%	0.1V/100	3.0	5.30	0.10	0.20
CHTPW 3308-102M	1000±20%	0.1V/100	2.5	8.40	0.05	0.10

■ CHTPW 3316 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	SRF (MHz) typ.	DCR (Ω) max.	I rms (A)	I sat (A)
CHTPW 3316-1R0M	1.0±20%	0.1V/100K	150.0	0.009	6.8	9.0
CHTPW 3316-1R5M	1.5±20%	0.1V/100K	100.0	0.010	6.4	8.0
CHTPW 3316-2R2M	2.2±20%	0.1V/100K	85.0	0.012	6.1	7.0
CHTPW 3316-3R3M	3.3±20%	0.1V/100K	60.0	0.015	5.4	5.8
CHTPW 3316-4R7M	4.7±20%	0.1V/100K	45.0	0.018	4.8	5.2
CHTPW 3316-6R8M	6.8±20%	0.1V/100K	35.0	0.027	4.4	4.3
CHTPW 3316-100M	10±20%	0.1V/100K	25.0	0.038	3.9	3.4
CHTPW 3316-150M	15±20%	0.1V/100K	20.0	0.046	3.1	3.0
CHTPW 3316-220M	22±20%	0.1V/100K	18.0	0.085	2.7	2.5
CHTPW 3316-330M	33±20%	0.1V/100K	14.0	0.100	2.1	2.0
CHTPW 3316-470M	47±20%	0.1V/100K	11.0	0.140	1.8	1.8
CHTPW 3316-680M	68±20%	0.1V/100K	10.0	0.200	1.5	1.4
CHTPW 3316-101M	100±20%	0.1V/100K	7.0	0.280	1.3	1.1
CHTPW 3316-151M	150±20%	0.1V/100K	6.5	0.400	1.0	0.9
CHTPW 3316-221M	220±20%	0.1V/100K	5.0	0.610	0.8	0.8
CHTPW 3316-331M	330±20%	0.1V/100K	4.0	1.020	0.6	0.6
CHTPW 3316-471M	470±20%	0.1V/100K	3.0	1.270	0.5	0.5
CHTPW 3316-681M	680±20%	0.1V/100K	2.5	2.020	0.4	0.4
CHTPW 3316-102M	1000±20%	0.1V/100K	2.0	3.000	0.3	0.3

Other non standard Inductance value are available to meet your exact requirements

- Note: 1. Inductance measured by LCR Meter HP 4294/HP4291 2. DCR measured by Milliohm meter CH502AC
 3. SRF measured by Network analyzer HP 4294/HP4291 4. SRF is for reference only
 5. Δ Temperature =40°Cmax at I rms 6. Δ L/L0A=10%typical at I sat

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■ CHTPW 3340 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	SRF (MHz) typ.	DCR (Ω) max.	I rms (A)	I sat (A)
CHTPW 3340-100M	10 \pm 20%	0.1V/100K	23.0	0.040	3.50	7.0
CHTPW 3340-150M	15 \pm 20%	0.1V/100K	14.0	0.050	3.20	5.8
CHTPW 3340-220M	22 \pm 20%	0.1V/100K	8.5	0.066	2.90	4.8
CHTPW 3340-330M	33 \pm 20%	0.1V/100K	7.0	0.080	2.35	3.8
CHTPW 3340-470M	47 \pm 20%	0.1V/100K	6.5	0.110	2.10	3.4
CHTPW 3340-680M	68 \pm 20%	0.1V/100K	4.5	0.170	1.90	2.7
CHTPW 3340-101M	100 \pm 20%	0.1V/100K	4.0	0.220	1.55	2.2
CHTPW 3340-151M	150 \pm 20%	0.1V/100K	3.0	0.340	1.35	1.9
CHTPW 3340-221M	220 \pm 20%	0.1V/100K	2.5	0.440	1.00	1.5
CHTPW 3340-331M	330 \pm 20%	0.1V/100K	2.3	0.700	0.90	1.3
CHTPW 3340-471M	470 \pm 20%	0.1V/100K	2.0	0.950	0.75	1.0
CHTPW 3340-681M	680 \pm 20%	0.1V/100K	1.5	1.200	0.55	0.9
CHTPW 3340-102M	1000 \pm 20%	0.1V/100K	1.3	2.00	0.50	0.7

■ CHTPW 5022 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	SRF (MHz) typ.	DCR (Ω) max.	I rms (A)	I sat (A)
CHTPW 5022-1R0M	1.0 \pm 20%	0.1V/100K	140	0.009	8.60	20.0
CHTPW 5022-1R5M	1.5 \pm 20%	0.1V/100K	110	0.012	7.50	18.0
CHTPW 5022-2R2M	2.2 \pm 20%	0.1V/100K	75	0.014	7.10	16.0
CHTPW 5022-3R3M	3.3 \pm 20%	0.1V/100K	70	0.018	6.20	14.0
CHTPW 5022-5R6M	5.6 \pm 20%	0.1V/100K	45	0.020	5.30	12.0
CHTPW 5022-100M	10 \pm 20%	0.1V/100K	21	0.031	4.30	10.0
CHTPW 5022-150M	15 \pm 20%	0.1V/100K	16	0.036	4.00	8.0
CHTPW 5022-220M	22 \pm 20%	0.1V/100K	13	0.047	3.50	7.0
CHTPW 5022-330M	33 \pm 20%	0.1V/100K	11	0.066	3.00	5.5
CHTPW 5022-470M	47 \pm 20%	0.1V/100K	9.0	0.086	2.60	4.5
CHTPW 5022-680M	68 \pm 20%	0.1V/100K	6.5	0.130	2.30	3.5
CHTPW 5022-101M	100 \pm 20%	0.1V/100K	5.7	0.190	1.80	3.0
CHTPW 5022-151M	150 \pm 20%	0.1V/100K	4.5	0.250	1.50	2.6
CHTPW 5022-221M	220 \pm 20%	0.1V/100K	3.7	0.380	1.20	2.4
CHTPW 5022-331M	330 \pm 20%	0.1V/100K	3.0	0.560	1.00	1.9
CHTPW 5022-471M	470 \pm 20%	0.1V/100K	2.7	0.850	0.82	1.4
CHTPW 5022-681M	680 \pm 20%	0.1V/100K	2.2	1.100	0.72	1.2
CHTPW 5022-102M	1000 \pm 20%	0.1V/100K	2.0	1.300	0.56	1.0

Other non standard Inductance value are available to meet your exact requirements

- Note: 1. Inductance measured by LCR Meter HP 4294/HP4291 2. DCR measured by Milliohm meter CH502AC
 3. SRF measured by Network analyzer HP 4294/HP4291 4. SRF is for reference only
 5. Δ Temperature =40°Cmax at I rms 6. Δ L/L0A=10%typical at I sat