

On-Board Type Coils / Chip Inductors



SMD Type Power Inductors TPH Series

TPH Series

Shielded SMD Power Inductor.



■ Features

- 1.Magnetic Shielded surface mount inductor with high current rating.
- 2.Low resistance to keep power loss minimum.
- 3.The products contain no lead and also support lead-free soldering.

■ Applications

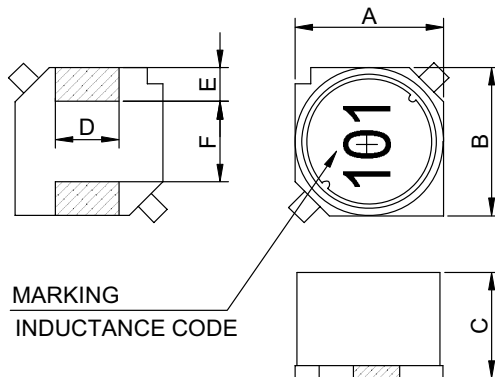
Excellent for power line DC-DC conversion applications used in hard disk, notebook computers and other electronic equipment.

■ Lead Free Part Numbering

TPH 0603 F - 101 M

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

■ Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
TPH 0603	6.0±0.3	6.0±0.3	2.9±0.3	2.0±0.2	1.5±0.2	3.0±0.2
TPH 0604	6.0±0.3	6.0±0.3	3.9±0.3	2.0±0.2	1.5±0.2	3.0±0.2
TPH 0605	6.0±0.3	6.0±0.3	4.9±0.3	2.0±0.2	1.5±0.2	3.0±0.2
TPH 0703	7.0±0.3	7.0±0.3	3.0±0.3	2.0±0.2	1.5±0.2	4.0±0.2
TPH 0705	7.0±0.3	7.0±0.3	4.6±0.3	2.0±0.2	1.5±0.2	4.0±0.2
TPH 1003	10±0.3	10±0.3	3.0±0.3	2.4±0.2	2.0±0.2	6.0±0.2
TPH 1004	10±0.3	10±0.3	4.6±0.3	2.4±0.2	2.0±0.2	6.0±0.2

● 特徵

1. 磁遮蔽表面黏著型電感，具高額定電流。
2. 低電阻令功率損失降至最低。
3. 產品無鉛適合無鉛錫。

● 應用

適合於硬式磁碟機、筆記型電腦和其他電子設備中電源線路上直流對直流整流的應用。

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■ TPH 0603 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A)max.
TPH 0603-1R0M	1.0±20%	1V/100K	0.019	2.40
TPH 0603-1R5M	1.5±20%	1V/100K	0.025	2.20
TPH 0603-2R2M	2.2±20%	1V/100K	0.032	1.90
TPH 0603-3R3M	3.3±20%	1V/100K	0.050	1.50
TPH 0603-4R7M	4.7±20%	1V/100K	0.060	1.30
TPH 0603-6R8M	6.8±20%	1V/100K	0.070	1.20
TPH 0603-100M	10±20%	1V/100K	0.120	1.00
TPH 0603-120M	12±20%	1V/100K	0.130	0.90
TPH 0603-150M	15±20%	1V/100K	0.150	0.80
TPH 0603-180M	18±20%	1V/100K	0.160	0.75
TPH 0603-220M	22±20%	1V/100K	0.230	0.65
TPH 0603-270M	27±20%	1V/100K	0.250	0.60
TPH 0603-330M	33±20%	1V/100K	0.340	0.55
TPH 0603-390M	39±20%	1V/100K	0.380	0.52
TPH 0603-470M	47±20%	1V/100K	0.420	0.50
TPH 0603-560M	56±20%	1V/100K	0.570	0.48
TPH 0603-680M	68±20%	1V/100K	0.620	0.45
TPH 0603-820M	82±20%	1V/100K	0.900	0.40
TPH 0603-101M	100±20%	1V/100K	0.990	0.35
TPH 0603-121M	120±20%	1V/100K	1.150	0.30
TPH 0603-151M	150±20%	1V/100K	1.750	0.28
TPH 0603-181M	180±20%	1V/100K	1.950	0.26
TPH 0603-221M	220±20%	1V/100K	2.200	0.22
TPH 0603-271M	270±20%	1V/100K	2.500	0.20
TPH 0603-331M	330±20%	1V/100K	3.200	0.18
TPH 0603-391M	390±20%	1V/100K	3.500	0.17
TPH 0603-471M	470±20%	1V/100K	4.950	0.16
TPH 0603-561M	560±20%	1V/100K	5.350	0.15
TPH 0603-681M	680±20%	1V/100K	6.300	0.14
TPH 0603-821M	820±20%	1V/100K	8.200	0.13
TPH 0603-102M	1000±20%	1V/100K	9.200	0.12

■ TPH 0604 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A)max.
TPH 0604-1R0M	1.0±20%	1V/100K	0.022	2.50
TPH 0604-1R5M	1.5±20%	1V/100K	0.025	2.20
TPH 0604-2R2M	2.2±20%	1V/100K	0.030	1.90
TPH 0604-3R3M	3.3±20%	1V/100K	0.035	1.70
TPH 0604-4R7M	4.7±20%	1V/100K	0.050	1.30
TPH 0604-6R8M	6.8±20%	1V/100K	0.055	1.10
TPH 0604-100M	10±20%	1V/100K	0.065	1.00
TPH 0604-120M	12±20%	1V/100K	0.090	0.90
TPH 0604-150M	15±20%	1V/100K	0.100	0.80
TPH 0604-180M	18±20%	1V/100K	0.110	0.70
TPH 0604-220M	22±20%	1V/100K	0.150	0.65
TPH 0604-270M	27±20%	1V/100K	0.170	0.60
TPH 0604-330M	33±20%	1V/100K	0.220	0.55
TPH 0604-390M	39±20%	1V/100K	0.240	0.50
TPH 0604-470M	47±20%	1V/100K	0.300	0.47

Note: 1. Inductance measured by LCR Meter HP 4294/HP4291
2. DCR measured by Milliohm meter CH502AC

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■ TPH 0604 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A)max.
TPH 0604-560M	56±20%	1V/100K	0.340	0.42
TPH 0604-680M	68±20%	1V/100K	0.390	0.40
TPH 0604-820M	82±20%	1V/100K	0.500	0.35
TPH 0604-101M	100±20%	1V/100K	0.570	0.32
TPH 0604-121M	120±20%	1V/100K	0.630	0.30
TPH 0604-151M	150±20%	1V/100K	0.900	0.27
TPH 0604-181M	180±20%	1V/100K	0.990	0.25
TPH 0604-221M	220±20%	1V/100K	1.150	0.22
TPH 0604-271M	270±20%	1V/100K	1.550	0.20
TPH 0604-331M	330±20%	1V/100K	1.760	0.18
TPH 0604-391M	390±20%	1V/100K	2.600	0.17
TPH 0604-471M	470±20%	1V/100K	3.000	0.16
TPH 0604-561M	560±20%	1V/100K	3.300	0.15
TPH 0604-681M	680±20%	1V/100K	3.700	0.13
TPH 0604-821M	820±20%	1V/100K	4.900	0.12
TPH 0604-102M	1000±20%	1V/100K	5.700	0.11

■ TPH 0605 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A)max.
TPH 0605-1R0M	1.0±20%	1V/100K	0.023	2.70
TPH 0605-1R5M	1.5±20%	1V/100K	0.026	2.30
TPH 0605-2R2M	2.2±20%	1V/100K	0.028	1.90
TPH 0605-3R3M	3.3±20%	1V/100K	0.035	1.80
TPH 0605-4R7M	4.7±20%	1V/100K	0.040	1.40
TPH 0605-6R8M	6.8±20%	1V/100K	0.045	1.20
TPH 0605-100M	10±20%	1V/100K	0.060	1.00
TPH 0605-120M	12±20%	1V/100K	0.065	0.90
TPH 0605-150M	15±20%	1V/100K	0.070	0.80
TPH 0605-180M	18±20%	1V/100K	0.095	0.70
TPH 0605-220M	22±20%	1V/100K	0.110	0.65
TPH 0605-270M	27±20%	1V/100K	0.120	0.60
TPH 0605-330M	33±20%	1V/100K	0.165	0.55
TPH 0605-390M	39±20%	1V/100K	0.180	0.48
TPH 0605-470M	47±20%	1V/100K	0.200	0.45
TPH 0605-560M	56±20%	1V/100K	0.255	0.40
TPH 0605-680M	68±20%	1V/100K	0.285	0.37
TPH 0605-820M	82±20%	1V/100K	0.390	0.35
TPH 0605-101M	100±20%	1V/100K	0.420	0.30
TPH 0605-121M	120±20%	1V/100K	0.470	0.28
TPH 0605-151M	150±20%	1V/100K	0.630	0.25
TPH 0605-181M	180±20%	1V/100K	0.720	0.22
TPH 0605-221M	220±20%	1V/100K	0.820	0.20
TPH 0605-271M	270±20%	1V/100K	1.100	0.18
TPH 0605-331M	330±20%	1V/100K	1.200	0.17
TPH 0605-391M	390±20%	1V/100K	1.700	0.16
TPH 0605-471M	470±20%	1V/100K	1.900	0.14
TPH 0605-561M	560±20%	1V/100K	2.150	0.13
TPH 0605-681M	680±20%	1V/100K	3.300	0.12
TPH 0605-821M	820±20%	1V/100K	3.650	0.11
TPH 0605-102M	1000±20%	1V/100K	4.150	0.10

Note: 1. Inductance measured by LCR Meter HP 4294/HP4291
 2. DCR measured by Milliohm meter CH502AC

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■ TPH 0703 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A)max.
TPH 0703-1R0M	1.0±20%	1V/100K	0.019	3.25
TPH 0703-1R5M	1.5±20%	1V/100K	0.023	3.00
TPH 0703-2R2M	2.2±20%	1V/100K	0.033	2.55
TPH 0703-3R3M	3.3±20%	1V/100K	0.035	2.40
TPH 0703-4R7M	4.7±20%	1V/100K	0.046	2.10
TPH 0703-6R8M	6.8±20%	1V/100K	0.060	1.90
TPH 0703-100M	10±20%	1V/100K	0.090	1.50
TPH 0703-120M	12±20%	1V/100K	0.120	1.45
TPH 0703-150M	15±20%	1V/100K	0.130	1.20
TPH 0703-180M	18±20%	1V/100K	0.150	1.15
TPH 0703-220M	22±20%	1V/100K	0.190	1.05
TPH 0703-270M	27±20%	1V/100K	0.200	1.00
TPH 0703-330M	33±20%	1V/100K	0.280	0.90
TPH 0703-390M	39±20%	1V/100K	0.300	0.80
TPH 0703-470M	47±20%	1V/100K	0.340	0.75
TPH 0703-560M	56±20%	1V/100K	0.440	0.68
TPH 0703-680M	68±20%	1V/100K	0.500	0.65
TPH 0703-820M	82±20%	1V/100K	0.680	0.60
TPH 0703-101M	100±20%	1V/100K	0.760	0.50
TPH 0703-121M	120±20%	1V/100K	0.840	0.48
TPH 0703-151M	150±20%	1V/100K	0.940	0.45
TPH 0703-181M	180±20%	1V/100K	1.300	0.38
TPH 0703-221M	220±20%	1V/100K	1.500	0.35
TPH 0703-271M	270±20%	1V/100K	2.400	0.30
TPH 0703-331M	330±20%	1V/100K	2.600	0.28
TPH 0703-391M	390±20%	1V/100K	3.000	0.25
TPH 0703-471M	470±20%	1V/100K	3.300	0.23
TPH 0703-561M	560±20%	1V/100K	5.700	0.20
TPH 0703-681M	680±20%	1V/100K	6.100	0.18
TPH 0703-821M	820±20%	1V/100K	6.700	0.17
TPH 0703-102M	1000±20%	1V/100K	7.400	0.16

■ TPH 0705 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A)max.
TPH 0705-1R0M	1.0±20%	1V/100K	0.020	3.00
TPH 0705-1R5M	1.5±20%	1V/100K	0.023	2.90
TPH 0705-2R2M	2.2±20%	1V/100K	0.026	2.70
TPH 0705-3R3M	3.3±20%	1V/100K	0.030	2.50
TPH 0705-4R7M	4.7±20%	1V/100K	0.036	2.00
TPH 0705-6R8M	6.8±20%	1V/100K	0.045	1.90
TPH 0705-100M	10±20%	1V/100K	0.060	1.70
TPH 0705-120M	12±20%	1V/100K	0.065	1.55
TPH 0705-150M	15±20%	1V/100K	0.070	1.45
TPH 0705-180M	18±20%	1V/100K	0.080	1.20
TPH 0705-220M	22±20%	1V/100K	0.090	1.15
TPH 0705-270M	27±20%	1V/100K	0.120	1.00
TPH 0705-330M	33±20%	1V/100K	0.135	0.90
TPH 0705-390M	39±20%	1V/100K	0.150	0.85
TPH 0705-470M	47±20%	1V/100K	0.170	0.80

Note: 1. Inductance measured by LCR Meter HP 4294/HP4291
2. DCR measured by Milliohm meter CH502AC

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■ TPH 0705 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A)max.
TPH 0705-560M	56±20%	1V/100K	0.230	0.70
TPH 0705-680M	68±20%	1V/100K	0.270	0.65
TPH 0705-820M	82±20%	1V/100K	0.300	0.57
TPH 0705-101M	100±20%	1V/100K	0.360	0.50
TPH 0705-121M	120±20%	1V/100K	0.400	0.47
TPH 0705-151M	150±20%	1V/100K	0.530	0.40
TPH 0705-181M	180±20%	1V/100K	0.600	0.38
TPH 0705-221M	220±20%	1V/100K	0.800	0.35
TPH 0705-271M	270±20%	1V/100K	0.900	0.32
TPH 0705-331M	330±20%	1V/100K	1.000	0.30
TPH 0705-391M	390±20%	1V/100K	1.400	0.27
TPH 0705-471M	470±20%	1V/100K	1.600	0.25
TPH 0705-561M	560±20%	1V/100K	1.750	0.22
TPH 0705-681M	680±20%	1V/100K	2.500	0.20
TPH 0705-821M	820±20%	1V/100K	2.800	0.19
TPH 0705-102M	1000±20%	1V/100K	3.200	0.18

■ TPH 1003 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A)max.
TPH 1003-1R5M	1.5±20%	1V/100K	0.022	4.00
TPH 1003-2R2M	2.2±20%	1V/100K	0.025	3.50
TPH 1003-3R3M	3.3±20%	1V/100K	0.040	3.00
TPH 1003-4R7M	4.7±20%	1V/100K	0.045	2.50
TPH 1003-6R8M	6.8±20%	1V/100K	0.060	2.20
TPH 1003-100M	10±20%	1V/100K	0.070	2.00
TPH 1003-120M	12±20%	1V/100K	0.095	1.90
TPH 1003-150M	15±20%	1V/100K	0.120	1.70
TPH 1003-180M	18±20%	1V/100K	0.130	1.55
TPH 1003-220M	22±20%	1V/100K	0.180	1.45
TPH 1003-270M	27±20%	1V/100K	0.200	1.30
TPH 1003-330M	33±20%	1V/100K	0.210	1.10
TPH 1003-390M	39±20%	1V/100K	0.270	1.00
TPH 1003-470M	47±20%	1V/100K	0.300	0.85
TPH 1003-560M	56±20%	1V/100K	0.400	0.80
TPH 1003-680M	68±20%	1V/100K	0.440	0.75
TPH 1003-820M	82±20%	1V/100K	0.490	0.65
TPH 1003-101M	100±20%	1V/100K	0.670	0.60
TPH 1003-121M	120±20%	1V/100K	0.740	0.55
TPH 1003-151M	150±20%	1V/100K	0.790	0.50
TPH 1003-181M	180±20%	1V/100K	1.200	0.45
TPH 1003-221M	220±20%	1V/100K	1.350	0.40
TPH 1003-271M	270±20%	1V/100K	1.800	0.38
TPH 1003-331M	330±20%	1V/100K	2.000	0.32
TPH 1003-391M	390±20%	1V/100K	2.100	0.30
TPH 1003-471M	470±20%	1V/100K	3.500	0.28
TPH 1003-561M	560±20%	1V/100K	3.900	0.25
TPH 1003-681M	680±20%	1V/100K	4.100	0.22
TPH 1003-821M	820±20%	1V/100K	4.550	0.20
TPH 1003-102M	1000±20%	1V/100K	5.100	0.18

Note: 1. Inductance measured by LCR Meter HP 4294/HP4291
2. DCR measured by Milliohm meter CH502AC

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■ **TPH 1004 Series**

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A)max.
TPH 1004-1R5M	1.5±20%	1V/100K	0.021	5.00
TPH 1004-2R2M	2.2±20%	1V/100K	0.024	4.50
TPH 1004-3R3M	3.3±20%	1V/100K	0.026	4.00
TPH 1004-4R7M	4.7±20%	1V/100K	0.030	3.00
TPH 1004-6R8M	6.8±20%	1V/100K	0.035	2.50
TPH 1004-100M	10±20%	1V/100K	0.042	2.20
TPH 1004-120M	12±20%	1V/100K	0.050	2.00
TPH 1004-150M	15±20%	1V/100K	0.055	1.80
TPH 1004-180M	18±20%	1V/100K	0.060	1.70
TPH 1004-220M	22±20%	1V/100K	0.080	1.50
TPH 1004-270M	27±20%	1V/100K	0.085	1.20
TPH 1004-330M	33±20%	1V/100K	0.110	1.15
TPH 1004-390M	39±20%	1V/100K	0.120	1.10
TPH 1004-470M	47±20%	1V/100K	0.150	1.00
TPH 1004-560M	56±20%	1V/100K	0.160	0.90
TPH 1004-680M	68±20%	1V/100K	0.190	0.85
TPH 1004-820M	82±20%	1V/100K	0.210	0.80
TPH 1004-101M	100±20%	1V/100K	0.300	0.70
TPH 1004-121M	120±20%	1V/100K	0.330	0.65
TPH 1004-151M	150±20%	1V/100K	0.360	0.55
TPH 1004-181M	180±20%	1V/100K	0.510	0.50
TPH 1004-221M	220±20%	1V/100K	0.560	0.45
TPH 1004-271M	270±20%	1V/100K	0.700	0.40
TPH 1004-331M	330±20%	1V/100K	0.760	0.37
TPH 1004-391M	390±20%	1V/100K	1.050	0.32
TPH 1004-471M	470±20%	1V/100K	1.100	0.30
TPH 1004-561M	560±20%	1V/100K	1.250	0.28
TPH 1004-681M	680±20%	1V/100K	1.700	0.24
TPH 1004-821M	820±20%	1V/100K	1.900	0.23
TPH 1004-102M	1000±20%	1V/100K	2.150	0.22

Note: 1. Inductance measured by LCR Meter HP 4294/HP4291

2. DCR measured by Milliohm meter CH502AC