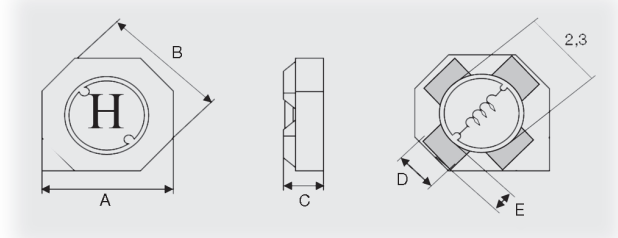




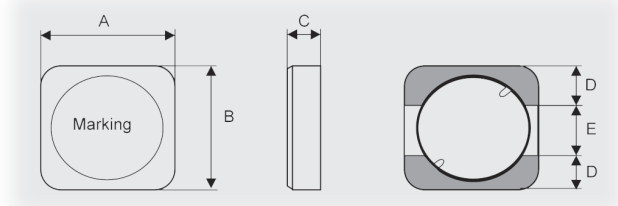
# SMD-Shielded Tiny Power Inductor WE-TPC



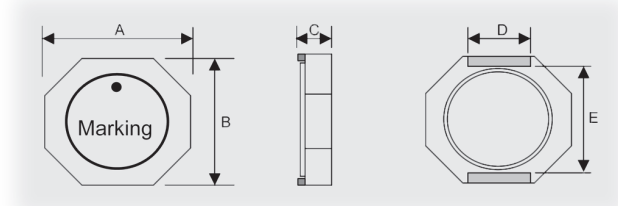
Type XS



Type S, M, MH, L, LH, X



Type XL, XLH



- Extremely flat power inductor
- High current capability
- High reliability and perfect soldering characteristics because of a integrated soldering pad
- Magnetically shielded which results in a low leakage field
- Operating temperature range: -40 °C up to +115 °C
- Recommended solder profile: Reflow



- Portable power like PDA, digital camera, PCMCIA cards and displays
- DC/DC converter
- Recommended for switching regulator IC's from Linear Technologies, National Semiconductor, Texas Instruments, Fairchild Semiconductor, ON Semiconductor, STMicroelectronics, Maxim, MPS, Semtech
- Embedded PC
- Clocked power supply
- Mobile data gathering, telemetric

Type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
Type XS	3.3	3.5	0.95	1.10	0.5
Type S	3.8	3.8	1.65	1.3	1.2
Type M	4.8	4.8	1.8	1.6	1.6
Type MH	4.8	4.8	2.8	1.6	1.6
Type L	5.8	5.8	1.8	1.9	2
Type LH	5.8	5.8	2.8	1.9	2
Type X	6.8	6.8	2.3	2.3	2.2
Type XL	10	10	2.8	3.2	7.4
Type XLH	10	10	3.8	3.2	7.4

Recommended for switching regulator IC's from:



Power Inductors

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## SMD-Shielded Tiny Power Inductor WE-TPC

### Type XS

Order Code	Inductance (μH)	DCR max. (Ω)	rated current typ. (mA)	I <sub>sat</sub> typ. (mA)	Qty.
744030001	1.2	0.115	1000	1100	1500
744030002	2.2	0.170	740	800	
744030003	3.3	0.225	650	720	
744030004	4.7	0.290	480	500	
744030006	6.8	0.5	400	430	
744030100	10	0.76	280	350	
744030220	22	1.450	220	250	

Rated current typ. referring to 40 K heating above ambient temperature  
Saturation current typ. referring to inductance loss of 10% typ.

### Type S

Order Code	Inductance (μH)	DCR max. (Ω)	rated current typ. (mA)	I <sub>sat</sub> typ. (mA)	Qty.
744031001	1.5	0.047	1750	1550	1000
744031002	2.5	0.058	1450	1250	
744031003	3.6	0.085	1380	1100	
744031004	4.7	0.105	1200	900	
744031006	6.8	0.156	850	750	
744031100	10	0.205	740	560	
744031150	15	0.285	620	450	
744031220	22	0.450	510	360	
744031330	33	0.660	420	320	
744031470	47	1.0	390	250	
744031101	100	2.4	250	180	

Rated current typ. referring to 30 K heating above ambient temperature  
Saturation current typ. referring to inductance loss of 35% typ.

### Type M

Order Code	Inductance (μH)	DCR max. (Ω)	rated current typ. (mA)	I <sub>sat</sub> typ. (mA)	Qty.
744042001	1	0.030	2700	2600	800
7440420018	1.8	0.050	2350	2400	
7440420027	2.7	0.06	2030	2200	
744042003	3.3	0.065	1950	1800	
7440420039	3.9	0.075	1820	1700	
744042004	4.7	0.082	1720	1650	
744042005	5.6	0.09	1640	1350	
744042006	6.8	0.1	1500	1250	
744042008	8.2	0.135	1400	1100	
744042100	10	0.15	1300	1000	
744042120	12	0.17	1150	950	
744042150	15	0.22	1030	750	
744042180	18	0.28	920	700	
744042220	22	0.3	880	600	
744042101	100	1.35	400	300	

Rated current typ. referring to 30 K heating above ambient temperature  
Saturation current typ. referring to inductance loss of 35% typ.



## SMD-Shielded Tiny Power Inductor WE-TPC

### Type MH

Order Code	Inductance (μH)	DCR max. (Ω)	rated current typ. (mA)	I <sub>sat</sub> typ. (mA)	Qty.
7440430012	1.2	0.020	3100	2800	500
7440430018	1.8	0.025	2700	2450	
7440430022	2.2	0.028	2500	2350	
7440430027	2.7	0.03	2350	1950	
744043003	3.3	0.035	2150	1800	
7440430039	3.9	0.06	1720	1650	
744043004	4.7	0.07	1550	1700	
744043005	5.6	0.085	1380	1300	
744043006	6.8	0.09	1300	1250	
744043008	8.2	0.1	1250	1050	
744043100	10	0.11	1190	1000	
744043120	12	0.125	1120	950	
744043150	15	0.15	1030	750	
744043180	18	0.16	980	700	
744043220	22	0.185	925	700	
744043101	100	0.6	510	290	

Rated current typ. referring to 30 K heating above ambient temperature  
Saturation current typ. referring to inductance loss of 35% typ.

### Type L

Order Code	Inductance (μH)	DCR max. (Ω)	rated current typ. (mA)	I <sub>sat</sub> typ. (mA)	Qty.
7440520012	1.2	0.03	3000	3500	500
7440520018	1.8	0.035	2600	3000	
744052002	2.5	0.04	2400	2700	
744052003	3	0.045	2200	2400	
7440520039	3.9	0.055	2000	2100	
744052005	5	0.06	1650	1800	
744052006	6.2	0.08	1450	1600	
744052007	7.5	0.09	1350	1500	
744052009	9	0.11	1250	1350	
744052100	10	0.13	1100	1250	
744052120	12	0.16	1000	1150	
744052150	15	0.19	950	1100	
744052180	18	0.21	900	1000	
744052220	22	0.28	800	900	
744052470	47	0.55	770	700	
744052680	68	0.85	640	500	
744052221	220	2.50	230	300	

Rated current typ. referring to 30 K heating above ambient temperature  
Saturation current typ. referring to inductance loss of 35% typ.



## SMD-Shielded Tiny Power Inductor WE-TPC

### Type LH

Order Code	Inductance ( $\mu$ H)	DCR max. ( $\Omega$ )	rated current typ. (mA)	$I_{sat}$ typ. (mA)	Qty.
744053002	2.6	0.03	3000	2700	400
744053003	3	0.03	2800	2500	
744053004	4.0	0.035	2500	2200	
7440530047	4.7	0.038	2400	1950	
744053005	5.3	0.04	2300	1900	
744053006	6.2	0.045	2200	1700	
744053008	8.2	0.055	2100	1600	
744053100	10	0.07	1500	1400	
744053120	12	0.08	1460	1250	
744053150	15	0.1	1380	1150	
744053180	18	0.11	1250	1100	
744053220	22	0.12	1150	900	
744053270	27	0.16	1050	800	
744053330	33	0.19	900	750	
744053470	47	0.25	820	650	
744053680	68	0.35	620	560	
744053101	100	0.48	450	450	
744053221	220	1.25	300	290	

Rated current typ. referring to 30 K heating above ambient temperature  
Saturation current typ. referring to inductance loss of 35% typ.

### Type X

Order Code	Inductance ( $\mu$ H)	DCR max. ( $\Omega$ )	rated current typ. (mA)	$I_{sat}$ typ. (mA)	Qty.
744062001	1	0.014	4800	4600	500
7440620015	1.5	0.018	4300	4000	
744062002	2.2	0.024	3400	2700	
744062003	3.3	0.032	2800	2500	
744062005	5	0.046	2150	2000	
744062006	6.2	0.054	1900	1800	
744062007	7.5	0.06	1700	1600	
744062100	10	0.07	1600	1400	
744062120	12	0.08	1430	1250	
744062150	15	0.095	1310	1100	
744062180	18	0.1	1280	1000	
744062220	22	0.12	1220	950	
744062330	33	0.2	930	780	
744062470	47	0.28	730	620	
744062680	68	0.36	640	500	
744062101	100	0.48	550	470	
744062102	1000	5.00	160	130	

Rated current typ. referring to 30 K heating above ambient temperature  
Saturation current typ. referring to inductance loss of 35% typ.



## SMD-Shielded Tiny Power Inductor WE-TPC

### Type XL

Order Code	Inductance (μH)	DCR max. (Ω)	rated current typ. (mA)	I <sub>sat</sub> typ. (mA)	Qty.
744065001	1	0.0065	8000	9500	1000
7440650015	1.5	0.01	7200	7500	
7440650022	2.2	0.015	6200	5900	
7440650033	3.3	0.02	5300	4700	
7440650047	4.7	0.023	4600	4200	
7440650068	6.8	0.033	4200	3600	
7440650082	8.2	0.037	3800	2800	
744065100	10	0.053	3000	2500	
744065150	15	0.09	2200	2250	
744065220	22	0.135	1800	1900	
744065330	33	0.18	1600	1300	
744065470	47	0.23	1400	1150	
744065560	56	0.27	1250	1100	
744065680	68	0.3	1200	1050	
744065820	82	0.42	1100	1000	
744065101	100	0.47	1000	900	
744065121	120	0.56	900	850	
744065151	150	0.68	850	750	

Rated current typ. referring to 30 K heating above ambient temperature  
Saturation current typ. referring to inductance loss of 35% typ.

### Type XLH

Order Code	Inductance (μH)	DCR max. (Ω)	rated current typ. (mA)	I <sub>sat</sub> typ. (mA)	Qty.
7440660015	1.5	0.0075	7200	10000	800
7440660022	2.2	0.0105	6700	6800	
7440660035	3.5	0.015	5800	6400	
744066005	5	0.022	4900	5500	
7440660062	6.2	0.024	4300	4500	
744066100	10	0.035	3600	4000	
744066150	15	0.05	3200	3250	
744066220	22	0.075	2500	2300	
744066330	33	0.112	2100	1800	
744066470	47	0.16	1750	1850	
744066680	68	0.216	1500	1500	
744066101	100	0.3	1200	1200	
744066151	150	0.47	1000	1100	
744066221	220	0.74	750	850	
744066331	330	1.0	600	700	

Rated current typ. referring to 30 K heating above ambient temperature  
Saturation current typ. referring to inductance loss of 35% typ.