



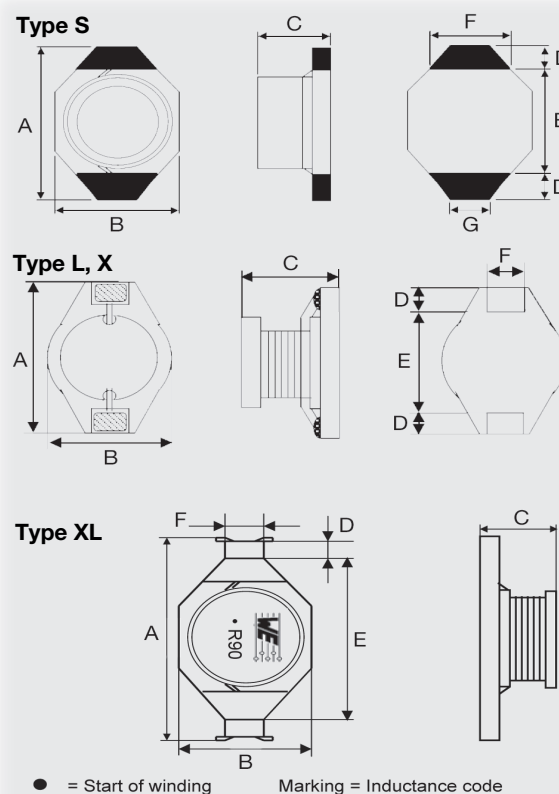
SMD-Power Inductors WE-PD4



- Current loading up to 35 A
- Compact size
- Industry standardized size
- Low-loss ferrite core
- High storage capacity
- Operating temperature: -40°C to +125°C
- Application frequency range up to 10 MHz
- Recommended solder profile: Reflow



- Noise suppression
- Perfectly suitable for switching regulators e.g. National Semiconductor, Linear Technology, Texas Instruments, Maxim, Micrel, Semtech, ON Semiconductor, STMicroelectronics, Maxim, MPS
- Perfectly suitable for switching regulators with extremely high efficiency



Type	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
S	6.6	4.45	2.92	1.0	4.32	3.05	1.27
L	12.7	10.0	5.0	2.4	7.6	2.5	—
X	18.54	15.24	7.11	2.54	13.15	2.54	—
XL	22.0	15.0	7.0	2.3	15	8	—

Recommended for switching regulator IC's from:





SMD-Power Inductors WE-PD4

Type S

Order Code	Inductance (μH)	Tolerance (%)	DCR max. (Ω)	DCR typ. (Ω)	rated current (A)	I _{sat} (A)	Qty.
7445501	1.0	±20	0.05	0.017	2.90	2.90	500
74455015	1.5	±20	0.05	0.02	2.80	2.60	
74455022	2.2	±20	0.07	0.028	2.40	2.30	
74455033	3.3	±20	0.08	0.044	2.00	2.00	
74455047	4.7	±20	0.09	0.063	1.50	1.50	
74455068	6.8	±20	0.13	0.092	1.40	1.20	
7445510	10.0	±20	0.16	0.121	1.20	1.10	
74455115	15.0	±20	0.23	0.176	1.10	0.90	
74455122	22.0	±20	0.37	0.255	0.80	0.70	
74455133	33.0	±20	0.51	0.362	0.60	0.58	
74455147	47.0	±20	0.64	0.556	0.50	0.50	
74455168	68.0	±20	0.86	0.79	0.40	0.40	
7445520	100.0	±20	1.27	1.08	0.30	0.31	
74455215	150.0	±20	2.00	1.45	0.25	0.27	
74455222	220.0	±20	3.11	2.58	0.20	0.22	
74455233	330.0	±20	5.00	4.15	0.16	0.18	
74455247	470.0	±20	6.80	5.58	0.16	0.15	
7445530	1000.0	±20	13.80	11.5	0.07	0.10	

Rated current referring to 15 K heating above ambient temperature

Saturation current typ. referring to inductance loss of 10% typ.

Type L

Order Code	Inductance (μH)	Tolerance (%)	DCR max. (Ω)	DCR typ. (Ω)	rated current (A)	I _{sat} (A)	Qty.
7445601	1.0	±20	0.007	0.00412	8.60	14.25	600
74456015	1.5	±20	0.009	0.0058	7.20	10.70	
74456025	2.5	±20	0.012	0.00885	5.80	10.00	
74456033	3.3	±20	0.015	0.0107	5.30	7.00	
74456047	4.7	±20	0.019	0.0146	5.00	6.00	
74456056	5.6	±20	0.032	0.0244	4.00	6.00	
74456068	6.8	±20	0.034	0.0259	3.80	5.10	
74456082	8.2	±20	0.04	0.0338	3.20	4.20	
7445610	10.0	±20	0.045	0.0349	3.30	5.00	
74456115	15.0	±20	0.060	0.0432	2.90	3.60	
74456122	22.0	±20	0.095	0.071	2.60	3.10	
74456133	33.0	±10	0.12	0.094	2.30	2.60	
74456147	47.0	±10	0.19	0.142	1.80	2.14	
74456168	68.0	±10	0.24	0.187	1.60	1.70	
7445620	100.0	±10	0.33	0.253	1.40	1.50	
74456215	150.0	±10	0.59	0.447	1.00	1.20	
74456222	220.0	±10	0.78	0.601	0.90	1.10	
74456233	330.0	±10	1.15	0.893	0.70	0.80	
74456247	470.0	±10	1.70	1.315	0.60	0.65	
74456268	680.0	±10	2.60	1.942	0.50	0.55	
7445630	1000.0	±10	3.90	2.940	0.40	0.52	
74456322	2200.0	±10	8.20	6.264	0.25	0.26	
74456347	4700.0	±10	17.0	13.295	0.20	0.20	
74456382	8200.0	±5	35.0	28	0.11	0.17	
7445640	10000.0	±10	39.0	29.88	0.10	0.15	

Rated current referring to 40 K heating above ambient temperature

Saturation current typ. referring to inductance loss of 10% typ.



SMD-Power Inductors WE-PD4

Type X

Order Code	Inductance (μH)	Tolerance (%)	DCR max. (Ω)	DCR typ. (Ω)	rated current (A)	I _{sat} (A)	Qty.
74458001	1	±20	0.009	0.005	8.6	25	300
74458002	2.2	±20	0.014	0.008	7.1	20.3	
74458003	3.3	±20	0.018	0.01	6.2	15.8	
74458005	5.6	±20	0.02	0.012	5.3	13.1	
74458010	10	±20	0.031	0.021	4.3	10	
74458115	15	±20	0.036	0.03	4	8	
74458122	22	±20	0.047	0.043	3.5	7	
74458133	33	±20	0.066	0.06	3	5.5	
74458147	47	±20	0.086	0.076	2.6	4.5	
74458168	68	±20	0.13	0.11	2.3	3.6	
7445820	100	±20	0.19	0.141	1.8	3.4	
74458215	150	±20	0.25	0.21	1.5	2.7	
74458220	220	±20	0.38	0.326	1.2	2.4	
74458233	330	±20	0.56	0.431	1	1.9	
74458247	470	±20	0.85	0.633	0.82	1.6	
74458268	680	±20	1.1	0.954	0.72	1.3	
7445830	1000	±20	1.8	1.37	0.56	1.1	

Rated current typ. referring to 40 K heating above ambient temperature

Saturation current typ. referring to inductance loss of 10% typ.

Type XL

Order Code	Inductance (μH)	Tolerance (%)	DCR max. (Ω)	DCR typ. (Ω)	rated current (A)	I _{sat} (A)	Qty.
74457006	0.47	±20	0.0016	0.0013	18.0	38.0	250
74457008	0.8	±20	0.0028	0.0023	16.0	35.0	
74457010	1.0	±25	0.0036	0.003	15.0	32.0	
74457012	1.2	±20	0.0038	0.0032	15.0	30.0	
74457018	1.8	±20	0.0054	0.0045	13.0	25.0	
74457027	2.7	±20	0.0084	0.007	10.0	20.0	
74457033	3.3	±20	0.0092	0.007	9.0	17.0	
74457047	4.7	±20	0.011	0.0088	8.5	15.0	
74457056	5.6	±20	0.015	0.0124	7.8	14.0	
74457068	6.8	±20	0.017	0.0141	7.5	12.0	
74457082	8.2	±20	0.019	0.0288	7.0	11.0	
7445710	10.0	±20	0.021	0.0172	6.5	10.0	
74457112	12.0	±15	0.028	0.0236	5.5	9.5	
74457115	15.0	±15	0.035	0.0288	5.0	9.0	
74457118	18.0	±15	0.04	0.033	4.6	8.0	
74457122	22.0	±15	0.047	0.0393	4.0	6.5	
74457127	27.0	±15	0.052	0.0435	3.8	6.0	
74457133	33.0	±15	0.07	0.0584	3.4	5.5	
74457139	39.0	±10	0.078	0.065	3.2	5.2	
74457147	47.0	±10	0.109	0.0911	2.8	5.0	

Rated current typ. referring to 40 K heating above ambient temperature

Saturation current typ. referring to inductance loss of 10% typ.



SMD-Power Inductors WE-PD4

Type XL

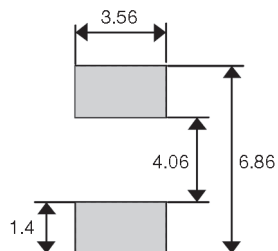
Order Code	Inductance (μH)	Tolerance (%)	DCR max. (Ω)	DCR typ. (Ω)	rated current (A)	I _{sat} (A)	Qty.
74457156	56.0	±10	0.116	0.0965	2.6	4.5	250
74457168	68.0	±10	0.134	0.112	2.4	4.0	
74457182	82.0	±10	0.173	0.114	2.2	3.5	
7445720	100.0	±10	0.202	0.168	2.0	3.0	
74457212	120.0	±10	0.235	0.196	1.6	3.0	
74457215	150.0	±10	0.268	0.233	1.5	2.6	
74457218	180.0	±10	0.307	0.256	1.3	2.5	
74457222	220.0	±10	0.388	0.323	1.2	2.4	
74457227	270.0	±10	0.479	0.399	1.1	2.2	
74457233	330.0	±10	0.564	0.47	1.00	1.9	
74457239	390.0	±10	0.670	0.558	0.9	1.7	
74457247	470.0	±10	0.809	0.674	0.82	1.4	
74457256	560.0	±10	1.026	0.855	0.78	1.3	
74457268	680.0	±10	1.200	1.002	0.72	1.2	
74457282	820.0	±10	1.4	1.172	0.64	1.1	
74457230	1000.0	±10	1.8	1.506	0.56	1.0	

Rated current typ. referring to 40 K heating above ambient temperature

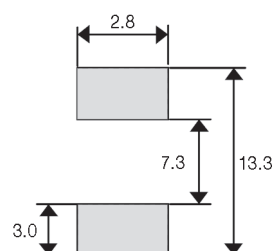
Saturation current typ. referring to inductance loss of 10% typ.

Soldering specification (in mm):

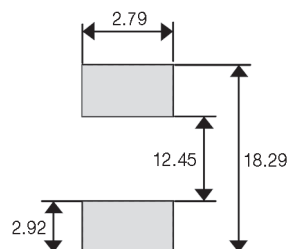
Type S



Type L



Type X



Type XL

