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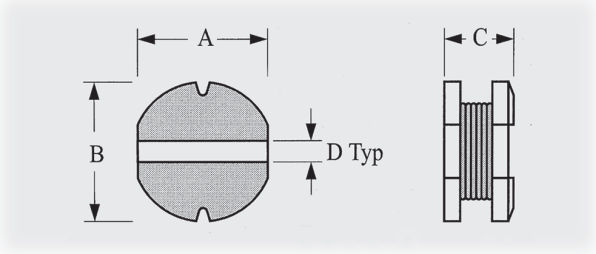
SMD-Power Inductors WE-PD2



Type	A (mm)	B (mm)	C (mm)	D (mm)
S	4.0	4.5	3.2	1.0
M	5.2	5.8	4.5	2.0
L	7.0	7.8	5.0	3.0
XL	9.0	10.0	5.4	3.5

CHARACTERISTICS

- Industry standard sizes
- Operating temperature: –40°C to +125°C
- Recommended solder profile: Reflow
- Current capability up to 5.72 A

APPLICATIONS

- Switching regulators with low operating voltage (computer, laptop, mobile phones and pagers)
- Integrated DC/DC-converter
- Perfectly suitable for switching regulators e.g. National Semiconductor, Linear Technology, Texas Instruments, Maxim, STMicroelectronics, Micrel, Semtech, ON Semiconductor, Maxim, MPS
- Perfectly suitable for switching regulators with extremely high efficiency
- Graphics cards

Recommended for switching regulator IC's from:

SMD-Power Inductors WE-PD2

Type S

Order Code	Inductance (µH)	Tolerance (%)	DCR max. (Ω)	DCR typ. (Ω)	rated current (A)	I_{sat} (A)	Qty.
7447730	1.0	±20	0.049	0.014	4	5.72	1500
744773014	1.4	±20	0.056	0.022	3.4	5.04	
744773018	1.8	±20	0.064	0.028	2.7	3.6	
744773022	2.2	±20	0.071	0.034	2.5	3.38	
744773027	2.7	±20	0.079	0.039	2.25	2.97	
744773033	3.3	±20	0.086	0.041	2.00	2.88	
744773039	3.9	±20	0.094	0.054	1.88	2.57	
744773047	4.7	±20	0.110	0.059	1.82	2.46	
744773056	5.6	±20	0.126	0.069	1.58	2.43	
744773068	6.8	±20	0.131	0.076	1.54	2.1	
744773082	8.2	±20	0.146	0.116	1.50	1.8	
74477310	10.0	±20	0.182	0.118	1.45	1.74	
744773112	12.0	±20	0.210	0.156	1.28	1.62	
744773115	15.0	±20	0.235	0.204	1.20	1.46	
744773118	18.0	±20	0.338	0.225	1.10	1.29	
744773122	22.0	±20	0.370	0.261	1.00	1.22	
744773127	27.0	±20	0.522	0.328	0.94	1	
744773133	33.0	±10	0.540	0.370	0.86	0.9	
744773139	39.0	±10	0.587	0.418	0.77	0.87	
744773147	47.0	±10	0.844	0.523	0.68	0.77	
744773156	56.0	±10	0.937	0.714	0.64	0.75	
744773168	68.0	±10	1.117	0.754	0.56	0.68	

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-PD2

Type M

Order Code	Inductance (µH)	Tolerance (%)	DCR max. (Ω)	DCR typ. (Ω)	rated current (A)	I_{sat} (A)	Qty.
744774068	6.8	±20	0.082	0.071	2.4	5.00	1500
74477410	10.0	±20	0.10	0.078	2.20	2.16	
744774112	12.0	±20	0.11	0.082	2.00	1.94	
744774115	15.0	±20	0.14	0.089	1.53	1.9	
744774118	18.0	±20	0.15	0.104	1.45	1.69	
744774122	22.0	±20	0.18	0.109	1.28	1.53	
744774127	27.0	±20	0.20	0.133	1.19	1.4	
744774133	33.0	±15	0.23	0.150	1.09	1.17	
744774139	39.0	±15	0.32	0.215	0.94	1.1	
744774147	47.0	±15	0.37	0.260	0.86	1	
744774156	56.0	±10	0.42	0.298	0.77	0.9	
744774168	68.0	±10	0.46	0.313	0.64	0.86	
744774182	82.0	±10	0.60	0.475	0.60	0.72	
74477420	100.0	±10	0.65	0.510	0.57	0.68	
744774212	120.0	±10	0.93	0.660	0.49	0.63	
744774215	150.0	±10	1.10	0.720	0.46	0.54	
744774218	180.0	±10	1.38	0.850	0.42	0.5	
744774222	220.0	±10	1.57	0.945	0.42	0.47	

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-PD2

Type L

Order Code	Inductance (µH)	Tolerance (%)	DCR max. (Ω)	DCR typ. (Ω)	rated current (A)	I_{sat} (A)	Qty.
74477510	10.0	±10	0.07	0.040	2.30	2.95	
744775112	12.0	±10	0.08	0.0417	2.18	2.2	
744775115	15.0	±10	0.09	0.0439	1.93	2.23	
744775118	18.0	±10	0.10	0.0526	1.89	2.14	
744775122	22.0	±10	0.11	0.0654	1.76	1.81	
744775127	27.0	±10	0.12	0.0738	1.48	1.62	
744775133	33.0	±10	0.13	0.0878	1.35	1.47	
744775139	39.0	±10	0.16	0.116	1.25	1.33	
744775147	47.0	±10	0.18	0.1343	1.17	1.24	
744775156	56.0	±10	0.24	0.189	1.04	1.14	
744775168	68.0	±10	0.28	0.218	0.99	1.05	500
744775182	82.0	±10	0.37	0.208	0.90	0.95	
74477520	100.0	±10	0.43	0.2482	0.77	0.86	
744775210	120.0	±10	0.47	0.308	0.67	0.81	
744775215	150.0	±10	0.64	0.4666	0.60	0.71	
744775218	180.0	±10	0.71	0.5741	0.55	0.57	
744775222	220.0	±10	0.96	0.614	0.51	0.56	
744775227	270.0	±10	1.11	0.699	0.47	0.51	
744775233	330.0	±10	1.26	0.81	0.43	0.48	
744775239	390.0	±10	1.77	1.151	0.38	0.43	
744775247	470.0	±10	1.96	1.37	0.36	0.38	

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-PD2

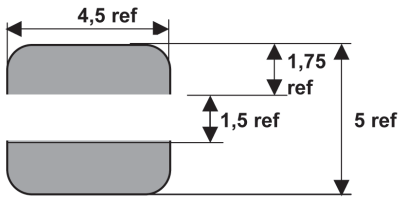
Type XL

Order Code	Inductance (µH)	Tolerance (%)	DCR max. (Ω)	DCR typ. (Ω)	rated current (A)	I_{sat} (A)	Qty.
74477610	10.0	±20	0.06	0.0275	2.98	3.24	500
744776112	12.0	±20	0.07	0.0326	2.72	3.15	
744776115	15.0	±20	0.08	0.034	2.47	2.88	
744776118	18.0	±20	0.09	0.0428	2.36	2.43	
744776122	22.0	±20	0.10	0.0511	2.04	2.07	
744776127	27.0	±20	0.11	0.0627	1.95	1.98	
744776133	33.0	±20	0.12	0.0826	1.78	1.89	
744776139	39.0	±20	0.14	0.0983	1.62	1.8	
744776147	47.0	±10	0.17	0.0951	1.45	1.62	
744776156	56.0	±10	0.19	0.112	1.36	1.53	
744776168	68.0	±10	0.22	0.138	1.19	1.49	
744776182	82.0	±10	0.25	0.15	1.11	1.17	
74477620	100.0	±10	0.35	0.2	1.02	1.1	
744776212	120.0	±10	0.40	0.243	0.94	0.99	
744776215	150.0	±10	0.47	0.3	0.81	0.9	
744776218	180.0	±10	0.63	0.32	0.76	0.78	
744776222	220.0	±10	0.73	0.4511	0.67	0.77	
744776227	270.0	±10	0.97	0.5	0.62	0.68	
744776233	330.0	±10	1.15	0.75	0.52	0.59	
744776239	390.0	±10	1.30	0.794	0.49	0.54	
744776247	470.0	±10	1.48	0.969	0.44	0.5	
744776256	560.0	±10	1.90	1.047	0.39	0.47	
744776268	680.0	±10	2.25	1.245	0.36	0.43	
744776282	820.0	±10	2.55	1.42	0.32	0.41	

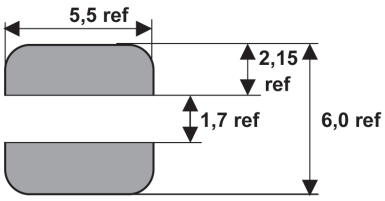
Rated current typ. referring to 40 K heating above ambient temperature
Saturation current typ. referring to inductance loss of 10% typ.

Soldering specification (in mm):

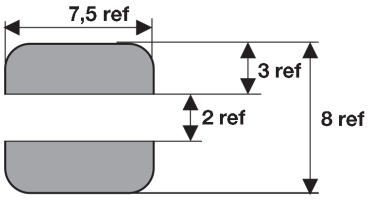
PD2 S



PD2 M



PD2 L



PD2 XL