



















Storage Applications: Power Inductors for SMPS



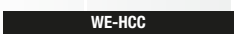










Frequency 10 kHz Range	100 kHz	1 MHz	10 MHz	100 MHz		I_R max. (A)	min. R_{DC} (mΩ)	Smallest size L x W x H (mm)	Inductance (μH)	Page
THT	WE-FI					5	10	9.5 x 4.5 x 15	8.2 ~ 860	146
	WE-SI					5	8	15.0 x 8.0 x 12.0	8 ~ 1000	440
	WE-FAMI					14.5	3.8	8.0 x 8.0 x 10.0	3 ~ 22	424
	WE-TI					8.5	6	6.0 x 6.0 x 8.5	1 ~ 68000	428
	WE-TIF					2.6	90	10.0 x 10.0 x 14.0	100 ~ 10000	436
	WE-TIS					8.5	7	7.8 x 7.8 x 7.5	1.3 ~ 8200	438
	WE-TI HV 400 V _{DC}					0.90	600	7.8 x 7.8 x 9.5	220 ~ 2200	446
SMT	WE-PMI					1.8	40	1.6 x 0.8 x 0.8	0.47 ~ 10	306
	WE-LQS					1.8	80	3.2 x 2.5 x 2.0	1 ~ 2200	329
	WE-MAPI					4.8	13.2	1.6 x 1.6 x 1.0	0.33 ~ 47	339
	WE-SPC					5.3	14	4.8 x 4.8 x 1.8	0.22 ~ 100	365
	WE-TPC					8.5	3.5	2.8 x 2.8 x 1.1	0.056 ~ 1500	349
	WE-PD					23.5	3	6.2 x 5.9 x 3.3	0.47 ~ 1500	368
	WE-PDF					19	1.6	10.2 x 10.2 x 4.5	0.22 ~ 27	380
	WE-PD2SR					4.85	8.5	7.0 x 7.8 x 5.0	1.2 ~ 220	382
	WE-PD2					10	2.5	4.0 x 4.5 x 3.2	0.12 ~ 820	383
	WE-PD HV					1.30	350	7.3 x 7.3 x 4.2	220 ~ 3300	442
	WE-PD2 HV 400 V _{DC}					0.41	1770	7.0 x 7.8 x 5.0	560 ~ 2200	444










Reference designs of leading IC manufacturers:



ON Semiconductor



Frequency Range	10 kHz	1 MHz	10 MHz	100 MHz	I_R max. (A)	R_{DC} min. (mΩ)	Smallest size L x W x H (mm)	Inductance (μH)	Page
SMT					3.9	14	6.6 x 4.45 x 2.92	1 ~ 1000	387
					18	1.3	6.6 x 4.45 x 2.92	0.47 ~ 10000	391
					25	0.51	5.6 x 5.3 x 4.0	0.13 ~ 16	395
					27	0.51	12.1 x 11.4 x 9.5	0.22 ~ 4.7	404
					27	0.53	8.4 x 7.9 x 7.2	0.22 ~ 10	404
					41.5	0.35	10.5 x 10.2 x 4.0	0.15 ~ 33	395
					29	1.7	18.3 x 18.2 x 8.9	3.3 ~ 82	395
					32	0.83	21.8 x 21.5 x 14.5	0.7 ~ 47	407
					47.5	0.155	7.15 x 7.0 x 5.0	0.072 ~ 0.47	409
					10.0	2.1	8.3 x 8.8 x 7.8	1 ~ 10	413
					25	0.75	4.0 x 4.0 x 1.0	0.1 ~ 22	414
Coupled SMT					1.9	0.085	6.0 x 6.0 x 4.0	7.5 ~ 25	456
					4.5	11.6	7.3 x 7.3 x 4.0	0.33-22.0	458
					8.6	11	7.3 x 7.3 x 4.0	1.3 ~ 220	460
					14.5	2.8	23.3 x 19.6 x 11.5	0.091 ~ 100	466
					22	1.6	13.2 x 15.5 x 10.5	0.08 ~ 4.4	468
Frequency Range	10 kHz	100 kHz	1 MHz	10 MHz	100 MHz				

	Iron Powder
	Nickel-Zinc
	Superflux
	Metal Alloy
	WE-PERM
	Manganese-Zinc
	Nickel-Zinc / Manganese-Zinc
	Hyperflux
	Nickel-Zinc / Manganese-Zinc / Metal Alloy