

# Bill of Materials

## TI DESIGNS

TIPD196:  $\pm 15\text{A}$  Current Sensor using Closed-Loop Compensated Fluxgate Sensor Reference Design

Item #	Quantity	Value	Designator	Description	Manufacturer	PartNumber	Supplier Part Number 1
1	1		!PCB	Printed Circuit Board	Any	TIPD-196	
2	2	1uF	C1, C2	CAP, CERM, 1 $\mu\text{F}$ , 25 V, +/- 10%, X7R, 0603_095	Kemet	C0603C105K3RACTU	399-7376-1-ND
3	1	0.1uF	C3	CAP, CERM, 0.1 $\mu\text{F}$ , 16 V, +/- 5%, X7R, 0603	AVX	0603YC104JAT2A	478-3726-1-ND
4	2	30V	D1, D2	Diode, Schottky, 30 V, 0.2 A, SOT-23	Vishay-Semiconductor	BAT54S-E3-08	BAT54S-E3-08CT-ND
5	2	Green	D3, D4	LED, Green, SMD	Lumex	SML-LX0603GW-TR	67-1549-1-ND
6	3		FID1, FID2, FID3	Fiducial mark. There is nothing to buy or mount.	N/A	N/A	
7	1		J1	Header, 2.54 mm, 6x2, Tin, R/A, SMT	Samtec	TSM-106-01-T-DH-K	
8	5		J2, J3, J4, J5, J6	Header, 2mm, 2x1, Gold, TH	Samtec	TMM-102-01-F-S	
9	2	200	R1, R2	RES, 200, 5%, 0.1 W, 0603	Vishay-Dale	CRCW0603200RJNEA	541-200GCT-ND
10	2	10.0	R3, R11	RES, 10.0, 0.1%, 1 W, 1206	Vishay-Dale	PHP01206E10R0BST5	PHP10.0ACT-ND
11	1	0	R4	RES, 0, 5%, 0.1 W, 0603	Panasonic	ERJ-3GEY0R00V	P0.0GCT-ND
12	1	43	R5	RES, 43, 5%, 0.1 W, 0603	Vishay-Dale	CRCW060343R0JNEA	541-43GCT-ND
13	5	10k	R6, R7, R8, R9, R10	RES, 10 k, 5%, 0.1 W, 0603	Yageo America	RC0603JR-0710KL	311-10KGRCT-ND
14	1	0	R12	RES, 0, 5%, 0.1 W, 0603	Yageo America	RC0603JR-070RL	311-0.0GRCT-ND
15	1		T1	Transformer, TH	Sumida	SC2912-15	
16	2		TP1, TP2	PCB Pin, Swage Mount, TH	Mill-Max	2505-2-00-44-00-00-07-0	ED1068-ND
17	1		U1	5-V, Closed-Loop, Current Sense Conditioner with Integrated Fluxgate Sensor, RTJ0020G	Texas Instruments	DRV421RTJR	