

Bill of Materials

TI DESIGNS TIDA-00439
Board Name : TIDA-00439-E2
Shunt based Ground Fault Protection for Inverters Powered from 100/110Vac supply

Qty	Reference	Part Description	Manufacturer	Manufacturer Part Number	PCB Footprint	Note
1	!PCB1	Printed Circuit Board	Any	TIDA-00439_E2		Fitted
3	C1, C4, C6	CAP, CERM, 100 pF, 50 V, +/- 5%, COG/NP0, 0603	MuRata	GRM1885C1H101JA01D	0603	Fitted
10	C2, C3, C5, C7, C8, C9, C10, C11, C12, C14	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	MuRata	GRM188R71H104KA93D	0603	Fitted
3	C13, C15, C16	CAP, CERM, 820 pF, 50 V, +/- 10%, X7R, 0603	MuRata	GRM188R71H821KA01D	0603	Fitted
1	D1	Diode, Schottky, 30 V, 0.1 A, SOD-323	Diodes Inc.	SD107WS-7-F	SOD-323	Fitted
4	H1, H2, H3, H4	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	B&F Fastener Supply	NY PMS 440 0025 PH	Screw	Fitted
4	J1, J2, J3, J4	Standard Banana Jack, Uninsulated	Pomona Electronics	3267	Pomona_3267	Fitted
1	J5	Terminal Block, 3x1, 2.54 mm, TH	Phoenix Contact	1725669	Terminal Block, 3x1, 2.54 mm, TH	Fitted
3	J6, J7, J8	Terminal Block, 2x1, 2.54mm, TH	TE Connectivity	282834-2	Terminal Block, 2x1, 2.54mm, TH	Fitted
2	R1, R2	RES, 38.3, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060338R3FKEA	0603	Fitted
1	R3	RES, 13.7 k, 0.1%, 0.1 W, 0603	Susumu Co Ltd	RG1608P-1372-B-T5	0603	Fitted
2	R4, R14	RES, 0.005, 1%, 3 W, WSL3637	Vishay-Dale	WSL36375L000FEA	WSL3637	Fitted
3	R5, R9, R11	RES, 1.00 k, 0.1%, 0.1 W, 0603	Susumu Co Ltd	RG1608P-102-B-T5	0603	Fitted
1	R6	RES, 1.00 k, 1%, 0.1 W, 0603	Yageo America	RC0603FR-071KL	0603	Fitted
2	R7, R12	RES, 14.7 k, 0.1%, 0.1 W, 0603	Susumu Co Ltd	RG1608P-1472-B-T5	0603	Fitted
2	R8, R19	RES, 16.0 k, 1%, 0.1 W, 0603	Yageo America	RC0603FR-0716KL	0603	Fitted
4	R10, R13, R17, R18	RES, 16.2 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060316K2FKEA	0603	Fitted
5	R15, R16, R22, R23, R33	RES, 0, 5%, 0.1 W, 0603	Yageo America	RC0603JR-070RL	0603	Fitted
1	R20	RES, 15.0 k, 1%, 0.1 W, 0603	Vishay-Dale	CRCW060315K0FKEA	0603	Fitted
1	R21	RES, 5.11 M, 1%, 0.1 W, 0603	Vishay-Dale	CRCW06035M11FKEA	0603	Fitted
4	TP1, TP2, TP3, TP5	Test Point, Miniature, Red, TH	Keystone	5000	Red Miniature Testpoint	Fitted
1	TP4	Test Point, Miniature, Black, TH	Keystone	5001	Black Miniature Testpoint	Fitted
1	U1	Precision, Low Noise, Low Quiescent Current Operational Amplifier, 2 to 5.5 V, -40 to 125 degC, 8-pin SOIC (D0008A), Green (RoHS & no Sb/Br)	Texas Instruments	OPA2376AID	D0008A	Fitted
1	U2	High Common-Mode Voltage Difference Amplifier, D0008A	Texas Instruments	INA149AIDR	D0008A	Fitted

Qty	Reference	Part Description	Manufacturer	Manufacturer Part Number	PCB Footprint	Note
1	U4	LinCMOS Dual Differential Comparators, D0008A	Texas Instruments	TLC372IDR	D0008A	Fitted
1	U6	Low-Drift, Low-Power, Dual-Output, VREF and VREF / 2 Voltage References, DDC0005A	Texas Instruments	REF2033AIDDCR	DDC0005A	Fitted

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