



Bill of Materials

TI DESIGNS
TIDA-00313: -48V Telecom Current/Voltage/Power Sense with Isolation

Item #	Quantity	Value	Designator	Description	Manufacturer	Part Number	Supplier Part Number
1	4	0.1uF	C1, C2, C6, C7	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0805	AVX	08055C104KAT2A	478-1395-1-ND
2	4	33pF	C4, C5, C8, C9	CAP, CERM, 33pF, 100V, +/-5%, C0G/NP0, 0603	AVX	06031A330JAT2A	478-1143-1-ND
3	2	10uF	C3, C10	CAP, CERM, 10uF, 25V, +/-10%, X5R, 0805	TDK	C2012X5R1E106K125AB	445-5984-1-ND
4	1	Green	D1	LED, Green, SMD	Lite-On	LTST-C190GKT	160-1183-1-ND
5	1	Red	D2	LED, Red, SMD	Lite-On	LTST-C190CKT	160-1181-1-ND
6	1	35.7kΩ	R1	RES, 35.7k ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW080535K7FKEA	541-35.7KCCT-ND
7	1	12.1kΩ	R2	RES, 12.1k ohm, 1%, 0.125W, 0805	Vishay-Dale	CRCW080512K1FKEA	541-12.1KCCT-ND
8	2	0Ω	R3, R4	RES, 0.0 ohm, 0.25W, 1206	Vishay-Dale	CRCW12060000Z0EA	541-0.0ETR-ND
9	1	1.8KΩ	R5	RES 1.80K OHM 3W 5% SMD	TE Connectivity	1-1879022-9	A103562TR-ND
10	2	910Ω	R6, R7	Thick Film Chip Resistor, 910 Ohm, 5% Tolerance, 0603 Size, 0.1 W	Panasonic	ERJ-3GEYJ911V	P910GTR-ND
11	5	10kΩ	R8, R9, R10, R11, R12	Thick Film Chip Resistor, 10k Ohm, 5% Tolerance, 0603 Size, 0.1 W	Panasonic	ERJ-3GEYJ103V	P10KGTR-ND
12	1	24V	Tranzorb	Diode, TVS, Uni, 24V, 600W, SMB	Diodes Inc.	SMBJ24A-13-F	SMBJ24A-FDICT-ND
13	1	4.7V	Zener	Diode Zener 4.7V 500MW SOD123	Diodes Inc.	BZT52C4V7	BZT52C4V7-FDITR-ND
14	1	INA226	U1	INA226-High-Side Measurement, Bo-Directional Current/Power Monitor	Texas Instruments	ISO1541DR	296-34872-2-ND
15	1	ISO1541	U2	ISO1541 - Low Power, Bidirectional I2C isolators	Texas Instruments	INA226AIDGSR	296-29034-2-ND
16	1	3-Pos	J1	Terminal Block, 6A, 3.5mm Pitch, 3-Pos, TH	On-Shore Technology	ED555/3DS	ED1515-ND
17	1	4-Pos	J2	Terminal Block, 6A, 3.5mm Pitch, 4-Pos, TH	On-Shore Technology	ED555/4DS	ED1516-ND
18	1	10-Pin	J7	10-Pin 50-mil Connector of SM-USB-DIG	Mill-Max Manufacturing C	851-43-010-20-001000	ED1317-ND
19	16	SMT	TP1-TP17	Test Point, Compact, SMT	Keystone	5016	5016KCT-ND
20	4		J3, J4, J5, J6	Header, TH, 100mil, 3x1, Gold plated, 230 mil above insulator	Samtec	TSW-103-07-G-S	SAM1029-03-ND
21	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	H542-ND
22	4		H5, H6, H7, H8	Standoff, Hex, 0.5L #4-40 Nylon"	Keystone	1902C	1902CK-ND