

Bill of Materials

TI DESIGNS
TIDM-RESLLC-DCDC

Item	Macro Name	Ref. Des	Type	Description	# needed per macro	# needed per board	Digikey	Mouser	Newark	Manufacturer	Comments
1	Main Board [R1]	BS1,BS2,BS3,BS4	BS	Banana Plug socket	4	4	501-1115				10 per bag
2	Main Board [R1]	C1	C	CAP 10UF 450V ELECT EE RADIAL	1	1	P13671-ND				DNI
3	Main Board [R1]	C2,C3	C	CAP 2.2UF 450V ELECT NHG RADIAL	2	2	P5873-ND				
4	Main Board [R1]	H1	J	100 pin DIMM socket - Molex 0876301001	1	1		538-87630-1001			
5	Main Board [R1]	J1,J2,J3,J4,J5,J6	J	Standard 0.1" SIL headers, cut to fit, 1x2	6	6					
6	Main Board [R1]	M2	M	PR902 AuxSupply-400Vin-to-15V-5V	1	1					custom made by PTI
7	DC-PwrEntry [R1]	C1	C	CAP CER 22UF 16V X5R 10% 1206	1	1	478-5727-1-ND				
8	DC-PwrEntry [R1]	C2	C	CAP CER 10UF 16V X5R 10% 1206	1	1	478-1573-1-ND				
9	DC-PwrEntry [R1]	C3	C	CAP CER 4.7UF 16V X7R 10% 0805	1	1	587-2394-1-ND				
10	DC-PwrEntry [R1]	C4	C	CAP .10UF 16V CERAMIC X7R 0805	1	1	399-1167-1-ND				
11	DC-PwrEntry [R1]	C5,C6,C7	C	CAP 330UF 25V ALUM LYTIC RADIAL	3	3	P5154-ND				
12	DC-PwrEntry [R1]	GND	GND	Standard 0.1" SIL headers, cut to fit, 1x2	1	1					
13	DC-PwrEntry [R1]	JP1	JP	CONN PWR JACK 2.1X5.5MM HIGH CUR	1	1	CP-002AH-ND				
14	DC-PwrEntry [R1]	LD1	LD	LED PURE GREEN 0805 SMD	1	1	404-1022-1-ND				
15	DC-PwrEntry [R1]	M1	M	MODULE PIP 9-5.5V 2.25A HORZ TH	1	1	296-20432-ND		24K0569		PTH08080W
16	DC-PwrEntry [R1]	R1	R	RES 330 OHM 1/4W 1% 0805 SMD	1	1	RHM330AECT-ND				
17	DC-PwrEntry [R1]	R2	R	RES 470 OHM 1/8W 1% 0805 SMD	1	1	RHM470CRCT-ND				
18	DC-PwrEntry [R1]	SW1	SW	SWITCH TOGGLE SPDT PC MNT 5A @ 120VAC	1	1	CKN1002-ND				
19	DC-PwrEntry [R1]	U1	U	IC LDO REG 3.3V 500MA SOT223-6	1	1	296-13810-1-ND				
20	USB-JTAG-ISO [R2]	C1, C4, C5	C	Cer. Cap - 1u, 6.3V, X5R, 0603	3	3	PCC2174CT-ND				
21	USB-JTAG-ISO [R2]	C2	C	Cer. Cap - 2u2, 6.3V, X5R, 0603	1	1	490-1551-1-ND				
22	USB-JTAG-ISO [R2]	C3, C6-C16	C	Cer. Cap - 100n, 16V, X7R, 0603	12	12	GRM188R71C104KA01D				
23	USB-JTAG-ISO [R2]	C17	C	Cer. Cap - 0.1uf, 100V, 20%, Axial	1	1	478-3154-1-ND				
24	USB-JTAG-ISO [R2]	DA1	DA	Diode Array, Quad, SOT363	1	1	BAW567DW-FDICT-ND				
25	USB-JTAG-ISO [R2]	J2	J	Standard 0.1" DIL header, cut to fit, 2x7, remove pin 6	1	1					
26	USB-JTAG-ISO [R2]	J4	J	Standard 0.1" SIL headers, cut to fit, 1x2	1	1					
27	USB-JTAG-ISO [R2]	JP1	JP	Connector - USB Type B	1	1	ED90064-ND				
28	USB-JTAG-ISO [R2]	L1, L2	L	Inductor, 22uH, 0805	2	2	490-4030-1				
29	USB-JTAG-ISO [R2]	LD1	LD	LED, green, 0805	1	1	404-1021-1				
30	USB-JTAG-ISO [R2]	R1	R	Res. - 470R, 5%, 0.1W, 0603	1	1	RHM470GCT-ND				
31	USB-JTAG-ISO [R2]	R2, R3	R	Res. - 27R, 5%, 0.1W, 0603	2	2	RHM27GCT-ND				
32	USB-JTAG-ISO [R2]	R4, R6, R9, R10, R14	R	Res. - 2K2, 5%, 0.1W, 0603	5	5	RHM22KGCT-ND				
33	USB-JTAG-ISO [R2]	R5	R	Res. - 1M, 1%, 0.1W, 0603	1	1	RHM100MHCT-ND				
34	USB-JTAG-ISO [R2]	R7	R	Res. - 10K, 5%, 0.1W, 0603	1	1	RHM10KGCT-ND				
35	USB-JTAG-ISO [R2]	R8	R	Res. - 1K, 5%, 0.1W, 0603	1	1	RHM10KGCT-ND				
36	USB-JTAG-ISO [R2]	R11	R	Res. - 680R, 5%, 0.1W, 0603	1	1	RHM680GCT-ND				
37	USB-JTAG-ISO [R2]	R13	R	Res. - 47K, 5%, 0.1W, 0603	1	1	RHM47KGCT-ND				
38	USB-JTAG-ISO [R2]	U1	U	FTDI UART/FIFO Dual, 48-LQFP	1	1	768-1010-1-ND				
39	USB-JTAG-ISO [R2]	U2	U	EEPROM, SOT23-6	1	1	93LC46BT-/OTCT-ND				
40	USB-JTAG-ISO [R2]	U3	U	DFF - LVC2G74	1	1	296-13273-1-ND				
41	USB-JTAG-ISO [R2]	U4	U	LDO - 3.3V - TPS73033	1	1	296-17580-1-ND				
42	USB-JTAG-ISO [R2]	U5	U	Digital Isolator, Quad 4/0, 25Mbps	1	1		595-ISO7240CDW			
43	USB-JTAG-ISO [R2]	U6	U	Digital Isolator, Quad 2/2, 25Mbps	1	1		595-ISO7242CDW			
44	USB-JTAG-ISO [R2]	X1	X	Resonator - 6MHz	1	1	490-1218-1-ND				
45	Resonant-HV-SSC [R3]	C1	C	CAP CER 1.0UF 25V X7R 10% 0805	1	1	445-1354-1-ND				
46	Resonant-HV-SSC [R3]	C2,C3	C	CAP .10UF 50V CERAMIC X7R 1210	2	2	399-1267-1-ND				
47	Resonant-HV-SSC [R3]	C4,C17	C	CAP .012UF 800V METAL POLYPRO 3%	2	2	P14256-ND				
48	Resonant-HV-SSC [R3]	C5,C15	C	CAP .015UF 630V MET PLYPRO RAD	2	2	493-3654-ND				
49	Resonant-HV-SSC [R3]	C6	C	Cer. Cap - 0.1uf, 100V, 20%, Axial	1	1	478-3154-1-ND				
50	Resonant-HV-SSC [R3]	C8,C9	C	CAP 330UF 16V ELECT POLY RAD	2	2	565-3042-ND				
51	Resonant-HV-SSC [R3]	C10,C11	C	CAP 330UF 16V ELECT POLY RAD	2	2	565-3042-ND				
52	Resonant-HV-SSC [R3]	C12	C	CAP CERM .01UF 10% 50V X7R 0805	1	1	478-1383-1-ND				
53	Resonant-HV-SSC [R3]	C13,C14	C	no pop	2	2					
54	Resonant-HV-SSC [R3]	C16	C	no pop	1	1					
55	Resonant-HV-SSC [R3]	C19,C21	C	CAP CERAMIC 47PF 50V NP0 0805	2	2	399-1117-1-ND				
56	Resonant-HV-SSC [R3]	Cd1,Cd2	C	CAP CER 2.2UF 25V X7R 10% 1206	2	2	445-1382-1-ND				
57	Resonant-HV-SSC [R3]	Cd3	C	CAP 22UF 16V CERAMIC X7R 0805	1	1	PCC1816CT-ND				
58	Resonant-HV-SSC [R3]	D1,D5	D	DIODE SCHOTTKY DUAL 30V SOT23-3	2	2	BAT54C-FDICT-ND				
59	Resonant-HV-SSC [R3]	D2,D6	D	DIODE SCHOTTKY 30V 200MW SOT23-3	2	2	BAT54A-FDICT-ND				
60	Resonant-HV-SSC [R3]	D3,D4	D	SCHOTTKY RECT 40V 0.5A SOD323	2	2	568-6521-1-ND	771-PMEG4005AEAT/R	75R0881		PMEG4005AEA,115
61	Resonant-HV-SSC [R3]	D7,D8	D	DIODE SCHOTTKY 200MW 30V SOT23-3	2	2	BAT54S-FDICT-ND				
62	Resonant-HV-SSC [R3]	D11,D12	D	DIODE SW DUAL 75V 350MW SOT23-3	2	2	BAV99-FDICT-ND				

63	Resonant-HV-SSC [R3]	HS1	HS	HEATSINK TO-220 VERT MT BLK 2"	1	1	345-1030-ND				
64	Resonant-HV-SSC [R3]	HS2	HS	HEATSINK TO-220 VERT MT BLK 2"	1	1	345-1030-ND				
65	Resonant-HV-SSC [R3]	GND-P	J	Standard 0.1" SIL headers, cut to fit, 1x2	1	1					
66	Resonant-HV-SSC [R3]	GND-S	J	Standard 0.1" SIL headers, cut to fit, 1x2	2	2					
67	Resonant-HV-SSC [R3]	L1	L	75PR8106 55uH	1	1					custom made by Vitec
68	Resonant-HV-SSC [R3]	Q1,Q2	Q	MOSFET P-CH 30V 1.5A SSOT3	2	2	FDN358PCT-ND				
69	Resonant-HV-SSC [R3]	Q3,Q4	Q	MOSFET N-CH 500V 8A TO-220AB	2	2	IRF840APBF-ND				
70	Resonant-HV-SSC [R3]	Q5,Q6	Q	MOSFET N-CH 60V 80A TO-220AB	2	2	FDP050AN06A0-ND				
71	Resonant-HV-SSC [R3]	R1,R3,R10,R11,R12,R14	R	RES 10.0K OHM 1/8W 1% 0805 SMD	6	6	RHM10.0KCCT-ND				
72	Resonant-HV-SSC [R3]	R2,R4,R13,R15	R	RES 10.0 OHM 1/8W 1% 0805 SMD	4	4	RHM10.0CRCCT-ND				
73	Resonant-HV-SSC [R3]	R5,R6,R7,R8,R9	R	RES 3.00 OHM 1/4W 1% 0805 SMD	5	5	RHM3.00CCT-ND				
74	Resonant-HV-SSC [R3]	R16	R	RES 4.99K OHM 1/8W 1% 0805 SMD	1	1	RHM4.99KCRCT-ND				
75	Resonant-HV-SSC [R3]	R17	R	RES 18.0 OHM 1/8W 1% 0805 SMD	1	1	RHM18.0CCT-ND				
76	Resonant-HV-SSC [R3]	R18	R	RES 475 OHM 1/8W 1% 0805 SMD	1	1	RHM475CCT-ND				
77	Resonant-HV-SSC [R3]	R19	R	RES 49.9 OHM 1/8W 1% 0805 SMD	1	1	RHM49.9CRCT-ND				
78	Resonant-HV-SSC [R3]	R20	R	RES 4.99K OHM 1/8W 1% 0805 SMD	1	1	RHM4.99KCRCT-ND				
79	Resonant-HV-SSC [R3]	R21	R	RES 475 OHM 1/8W 1% 0805 SMD	1	1	RHM475CCT-ND				
80	Resonant-HV-SSC [R3]	R24,R26	R	RES 4.99K OHM 1/8W 1% 0805 SMD	2	2	RHM4.99KCRCT-ND				
81	Resonant-HV-SSC [R3]	R25,R27	R	RES 475 OHM 1/8W 1% 0805 SMD	2	2	RHM475CCT-ND				
82	Resonant-HV-SSC [R3]	R28,R32	R	RES .01 OHM 3W 1% 2512 SMD	2	2	CRA2512-FZ-R010ELFCT-ND				
83	Resonant-HV-SSC [R3]	R29,R33	R	RES 1.00K OHM 1/8W 1% 0805 SMD	2	2	RHM1.00KCRCT-ND				
84	Resonant-HV-SSC [R3]	R30,R34	R	RES 4.02K OHM 1/8W 1% 0805 SMD	2	2	RHM4.02KCRCT-ND				
85	Resonant-HV-SSC [R3]	R31,R35	R	RES 1.00K OHM 1/8W 1% 0805 SMD	2	2	RHM1.00KCRCT-ND				
86	Resonant-HV-SSC [R3]	T1	T	WCM-701-6	1	1					West Coast Magnetics
87	Resonant-HV-SSC [R3]	T2	T	75PR8105	1	1					custom made by Vitec
88	Resonant-HV-SSC [R3]	T3	T	WCM-601-6	1	1					West Coast Magnetics
89	Resonant-HV-SSC [R3]	U1,U2	U	IC MOSFET DRVVR DUAL HS 4A 8-SOIC	2	2	296-12531-5-ND				UCC27324D
90	Resonant-HV-SSC [R3]	U3	U	IC OPAMP GP R-R 38MHZ DUAL 8SOIC	1	1	OPA2350UA-ND	595-OPA2350UA	35C1873		OPA2350UA
91	Resonant-HV-SSC [R3]		Misc	Thermal Interface Products THERMASIL INSULATOR	4	4		532-53-77-4G		53-77-4G	Goes between MOSFET and Heatsink
92	Resonant-HV-SSC [R3]		Misc	WASHER FLAT #4 .120X.375" NYLON	4	4	3118K-ND				Goes between PCB and Heatsink
93	Resonant-HV-SSC [R3]		Misc	Mounting Hardware SHOULDER WASHER	4	4		749-SW-032-135		SW-032-135	Goes between MOSFET and Screw/Nut

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