

Bill of Materials

TI DESIGNS

TIDM-SOMPLC-F28PLC84

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
1	3	C1 C4 C5	0.1UF	Capacitor,0.1UF,16 V,10	AVX	0603YC104KAT*A		C0603	
2	2	C2 C3	3n3F	Cap Ceramic SMT 0402				C0402	
3	2	C6 C7	15pf	CAP CER 15PF 50V 5% COG 0402	MURATA	GRM1555C1H150JZ01D		C0402	
4	1	C8	3n3F	CAP .0033UF 50V PPS FILM 1206	PANASONIC	ECH-U1H332JX5		C1206	
5	1	C9	10nF	Cap Ceramic SMT 0402				C0402	
6	2	C10 C11	680pf	CAP 680PF 50V CERAMIC X7R 0805	yageo	CC0805KRX7R9BB681		C0805	
7	5	C14 C23 C24 C25 C53	10nF	CAP CER 10000PF 16V 10% X7R 0603	MURATA	GRM188R71C103KA01D		C0603	
8	2	C15 C54	1uF	Cap Ceramic SMT 0603	Taiyo Yuden	UMK107BJ105KA-T		C0603	
9	2	C16 C17	100nF	CAP CER .1UF (100nf) 25V Y5V 0402	MURATA	GRM155F51E104ZA01D		C0402	
10	2	C18 C19	10nF	CAP CER 10000PF (10NF) 25V 10% X7R 0603	MURATA	GRM188R71E103KA01D		C0603	
11	2	C20 C30	10UF	Cap Ceramic SMT 1206	Taiyo Yuden	GMK316F106ZL-T		C1206	
12	1	C21	47uf	CAP CER 47UF 25V Y5V 2220	TDK	C5750Y5V1E476Z		C2220	
13	1	C22	100nF	Cap Ceramic SMT 0402	Kemet Electronics Corporation	C0402C104K8PACTU		C0402	
14	1	C26	10UF	Capacitor,10UF,6.3 V,20 %, X5R,	PANASONIC	ECJ-2FB0J106M		C0805	
15	1	C27	10nF	Cap Ceramic SMT 0603	AVX	06035C103KAT2A		C0603	
16	1	C28	33nf	Cap Ceramic SMT 0402				C0402	
17	1	C29	22nf	Cap Ceramic SMT 0402				C0402	
18	2	C31 C42	10UF	CAP CERAMIC 10UF 6.3V X5R 0603	PANASONIC	ECJ-1VB0J106M		C0603	
19	4	C32 C35 C43 C44	47UF	CAP TANT 47UF 10V 20% 0805	Vishay	298D476X0010P2T		C0805P	
20	14	C33 C34 C36 C37 C38 C39 C40 C41 C45 C46 C47 C48 C49 C50	0.1uf	CAP CER .1UF 10V 10% X5R 0402	MURATA	GRM155R61A104KA01D		C0402	
21	3	C55 C61 C62	DNP	Cap Ceramic SMT 0402				C0402	
22	1	C56	DNI	CAP CER 4.7UF 4.0V X5R 10% 0402	TDK	C1005X5R0G475K		DNI	Do Not Install
23	1	C57	DNI	CAP CER 33PF 25V S 0402 UHI Q	Johanson Dielectrics	250R07S330JV4T		DNI	Do Not Install
24	1	C58	DNI	CAP CER 10UF 6.3V X5R 20% 0603	TDK	C1608X5R0J106M		DNI	Do Not Install
25	2	D1 D2	LED_RED_SMA_SMT	LED, RED, 3.0 VR, 0.2 IF,SURF.	PANASONIC	LNJ208R8ARA		LED0603H35	
26	1	J1	SBH31-NBPB-D17-SP-	CONN HDR 1.27MM 34POS GOLD	Sullins Connector	SBH31-NBPB-D17-SP-BK		male	
27	1	J2	DSP JTAG Header	CONN. 2X7 HEADER, SMT, DSP	SAMTEC	TSM-107-01-S-DV		hdr_14p	
28	1	L1	330uH	INDUCTOR 330UH 10% 1210 SMD	Panasonic - ECG	ELJ-EA331KF		IND1210	
29	1	L2	470uH	INDUCTOR POWER 470UH 1007	Taiyo Yuden	CB2518T471K		IND1007	
30	1	L3	1uH	INDUCTOR 1.0UH 1.075A 20%	Taiyo Yuden	LB3218T1R0M		IND1207	

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31	1	L4	dni	INDUCTOR 2.2UH 350MA 20%	TDK	GLCR2012T2R2M-HC		dni	Do Not Install
32	1	P1	DNI	DNI					Do Not Install
33	2	R1 R2	56R	Resistors 56R, 5% - SMD, 0402				R0402	
34	2	R3 R4	1K	Resistors,1K,5%, SMD,0402				R0402	
35	2	R5 R6	680R	Resistors, 680R, 5% - SMD, 0603				R0603	
36	2	R7 R8	5K49	Resistors 5K49 5% - SMD, 0402				R0402	
37	1	R9	2K	Resistors 2K 5% - SMD, 0402				R0402	
38	2	R10 R11	57K6	Resistors 57K6 5% - SMD, 0402				R0402	
39	3	R12 R13 R14	2K2	Resistors 2K2 5% - SMD, 0402				R0402	
40	3	R15 R28 R29	0R	Resistors, 0R, 5% - SMD, 0402				R0402	
41	7	R16 R17 R18 R19 R20 R21	10K	Resistor 10K 5% - SMD,0402				R0402	
42	1	R23	330R	RES 330 OHM 1/16W 5% 0402	vishay	CRCW0402330RJNED		R0402	
43	2	R24 R25	150R	Resistor 150R 5% - SMD,0402				R0402	
44	3	R43 R33 R34	DNP	Resistors, DNP - SMD, 0402 (do				R0402	
45	2	R30 R31	DNP	Resistors DNP - SMD, 0603 (Do				R0603	
46	1	R32	33K	Resistor 33K 5% - SMD,0402				R0402	
47	1	R35	dni	RES 357K OHM 1/10W 1% 0402	Panasonic	ERJ-2RKF3573X		dni	Do Not Install
48	1	R36	dni	RES 165K OHM 1/10W 1% 0402	Panasonic	ERJ-2RKF1653X		dni	Do Not Install
49	2	R41 R42	0	RES 0.0 OHM 1/10W 0402 SMD	Panasonic - ECG	ERJ-2GE0R00X		R0402	
50	1	R27	10k	RES 10K OHM 1/10W 5% 0402	Panasonic	ERJ-2GEJ103X		R0402	
51	1	SW1	2POS_DIPSW	SWITCH DIP HALF PITCH 2POS	CTS	218-2LPST		SMT218LP_2POS	
52	4	TP1 TP3 TP4 TP5	TP_CLIP_5015	PC TEST POINT MINIATURE SMT	TI	5015		TP_5015	
53	2	U10 U9	B350A-13-F	DIODE SCHOTTKY 3A 50V SMA	Diodes Inc	B350A-13-F		DO-214AB	
54	1	U11	18V	DIODE ZENER 3W 18V SMB	On Semi	1SMB5931BT3		DO-214AA	
55	1	U12	DNI	2.25 MHz 300 mA Step Down	TI	TPS62240		DNI	Do Not Install
56	1	U1	F28PLC84_80Pin	F28PLC84, 80-Pin PFP LQFP	TI	TMS320F28PLC84		PFP (80)	
57	1	U2	AT24C1024	IC EEPROM 1MBIT 1MHZ 8TSSOP	Atmel	AT24C1024B-TH-T		TSSOP8	
58	1	U3	SN74LVC2G07DBVR	IC,Dual Buffer/Driver With Open-	TI	SN74LVC2G07DBV		DBV6	
59	1	U4	TPS3828	Reset Supervisor, SOT23-5	TI	TPS3828-33DBV		DBV5	
60	1	U6	AFE031	AFE031 TI PLC Integrated AFE, 48	TI	AFE031		RGZ	
61	2	U7 U8	DNI	Do Not Install	Diodes Inc	DNI		DO-214AB	
62	1	X1	20Mhz OSC 20ppm	CRYSTAL 20.000MHZ 10PF SMD	Abracon Corporation	ABM3B-20.000MHZ-10-1-		4-SMD (0.197" L	

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