

Schematic Name = 100221094CPF-PwrSwitchSchematic
Variant Name = <Core Design>
Doc = 100221094
Release H
Design File Name = X:\CPF\ELECTRICAL ENGR\ED'S STUFF\SCHEMATICS\100221094-CPF-POWERSWITCH.DSN

Item Number	Quantity	Part Reference	Value	Tolerance	Rating	Type	Manufacturer Number	Distributor Number	Description	Rated Voltage	Manufacturer	PART_NUMBER
1	14	C39	0.10uF	10%					CAP, CER, 0.10uF, 16V, 10%, X7R, 0603	16V	Kemet	C0603C104KARAC
2	5	C3 C4 C16 C28 C40	1.0uF	10%					CAP 1.0UF 16V CERAMIC X7R 0805	16V	Kemet	C0805C105K4RAC
3	15	C7 C8 C9 C10 C11 C19 C20 C21 C22 C23 C31 C32 C33	0.22uF	10%						25V	Kemet	C0603C224K3RAC
4	3	C12 C24 C36	470uF	20%		Hybrid Polymer			CAP POLY HYB 470UF 20% 16V SMD	16V	United Chemi-Con	HHXB160ARA471MJA0G
5	3	C14 C26 C38	47,000.0pF	10%						50V	Kemet	C0603C473KSRAC
6	3	D1 D4 D5	SMBJ12A-13-F			SMBJ12A			TVS DIODE 12VWWM 19.9VC SMB		Diodes Incorporated	SMBJ12A-13-F
7	3	D2 D3 D6	SMBJ6.5A-13-F			SMBJ6.5A		SMBJ6.5CA-FDICT-ND	TVS DIODE 6.5VWWM 11.2VC SMB		Diodes Incorporated	SMBJ6.5A-13-F
8	1	J1	5650948-5						CONN DIN PLUG 48POS RT ANG PCB		TE Connectivity AMP Connectors	5650948-5
9	1	J2	M80-5401042			Datamate J-Tek	M80-5401042		CONN HDR 2MM R/A W/SCREW 10POS		Harwin Inc.	M80-5401042
10	1	J3	M80-5401242			Datamate J-Tek	M80-5401242	952-1931-ND	2X6POS MALE H BOARD MOUNT		Harwin Inc.	M80-5401242
11	2	J4 J5	M80-5400642			Datamate J-Tek			CONN HDR 2MM R/A W/SCREW 6POS		Harwin Inc.	M80-5400642
12	6	JP1 JP2 JP3 JP4 JP5 JP6	LS=0.100"						MISC 3 PIN JUMPER 0.100" PITCH 0.025" SQ			MISC_JMPR-TH-3PIN
13	3	L1 L2 L3	MPZ2012S221A						FERRITE CHIP 220 OHM 3A 0805		TDK Corporation	MPZ2012S221A
14	3	L4 L5 L6	BNX024H01L						EMI/RFI Suppressors & Ferrites 100M Ohm 15A SMD	50V	Murata	BNX024H01L
15	3	Q1 Q2 Q3	IRFR7440TRPBF						MOSFET N CH 40V 90A DPAK	40V	Infineon Technologies	TMP-2164
16	16	R1 R5 R7 R10 R18 R23 R27 R29 R30 R35 R45 R49 R51 R52 R57 R68	TBD						TO BE DETERMINED, HEIGHT 0.5mm			TBD_R0603
17	14	R2 R3 R6 R8 R9 R17 R28 R31 R32 R33 R50 R53 R54 R55	0.0	Jumper					RES 0.0 OHM 1/10W 0603 SMD		Vishay/Dale	CRCW06030000Z0EA
18	1	R4	22.0K	5%						75V	Vishay	CRCW060322K0JNEA
19	24	R11 R12 R13 R14 R15 R16 R19 R20 R34 R36 R37 R38 R39 R40 R41 R42 R56 R58 R59 R60 R61 R62 R63 R64	100k	5%						75V	Vishay Dale	CRCW0603100KJNEA
20	3	R21 R43 R65	0.04	±1%					RES .04 OHM 1W 1% 2512 SMD		Vishay/Dale	WSL2512R0400FEA
21	3	R22 R44 R66	10	1%						75V	Vishay	CRCW060310R0FKEA
22	3	R24 R46 R67	22.1K	1%						75V	Vishay	CRCW060322K1FKEA
23	3	R25 R47 R69	33	5%						75V	Vishay	CRCW060333R0JNEA
24	3	R26 R48 R70	42.2K	1%						75V	Vishay	CRCW060342K2FKEA
25	36	SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8 SB9 SB10 SB11 SB12 SB13 SB14 SB15 SB16 SB17 SB18 SB19 SB20 SB21 SB22 SB23 SB24 SB25 SB26 SB27 SB28 SB29 SB30 SB31 SB32 SB33 SB34 SB35 SB36	0603						MISC 2 PIN JUMPER SOLDER BRIDGE 0603			MISC_SOLDERBRIDGE_SM0603
26	2	TS1 TS2	824011						TVS DIODE 5VWWM 8.5VC SOT23		Wurth Electronics Inc	824011
27	1	U1	LTC6930IMS8-7.37#PBF						IC OSC SILICON 7.3728MHZ 8-MSOP		Linear Technology	LTC6930IMS8-7.37#PBF
28	3	U2 U7 U12	XR20M1280IL32-F						UART Interface IC 1Ch 12C/SPI UART w/ Lvl Shfters & 8 GPIOs		Exar	XR20M1280IL32-F
29	1	U3	MAX3244EEAI+						IC TXRX RS-232 W/SHTDWN 28-SSOP		Maxim Integrated	MAX3244EEAI+
30	3	U4 U9 U14	SN74LVC1G04DBVR						IC SINGLE INVERTER-GATE SOT-23-5		Texas Instruments	SN74LVC1G04DBVR
31	3	U5 U11 U16	LTC4380IMS-3#PBF						IC LOW CUR SURGE STOPPER 10MSOP		Linear Technology	LTC4380IMS-3#PBF
32	3	U6 U10 U15	LTC2946CMS#PBF						IC ENERGY MONITOR 12C 16MSOP		Linear Technology	LTC2946CMS#PBF
33	2	U8 U13	MAX3226EEAE+						IC TXRX RS232 250KBPS D16-SSOP		Maxim Integrated	MAX3226EEAE+