

TIDA-00847_DCFR REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
C3, C4, C24, C25	4	1000pF	CGA3E2C0G1H102J080AD	TDK Corporation	CAP CER 1000PF 50V C0G 0603	0603
C7, C8, C13, C26, C27, C29	6	10uF	T491B106K016AT	Vishay-Sprague	CAP, TA, 10 μ F, 16 V, +/- 10%, 2 ohm, SMD	3528-21
C9, C10, C12, C15, C16, C18, C19, C23, C28, C30	10	0.1uF	C0603C104K5RACTU	Kemet	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	0603
C11, C14, C17, C20, C22	5	1uF	C1608X7R1C105K080AC	TDK Corporation	CAP CER 1UF 16V X7R 0603	0603
C21	1	470pF	GRM188R71H471KA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0603	0603
D1, D2, D7, D8	4	400V	SMCJ400CA	Bourns Inc	TVS DIODE 400VWM 648VC SMC	SMC
D5, D9, D13	3	3.9V	PTZTE253.9B	Rohm Semiconductor	DIODE ZENER 4.1V 1W PMDS	DO-214AC, SMA
D10, D11, D17, D18	4	3.3V	PESD3V3L1BA,115	Nexperia USA Inc	TVS DIODE 3.3VWM 26VC SOD323	SOD323
D12, D14	2	Green	LG L29K-G2J1-24-Z	OSRAM	LED, Green, SMD	1.7x0.65x0.8mm
J1	1		800-10-003-10-001000	Mill-Max	Header, 100mil, 3x1, TH	Header, 3x1, 100mil, TH
J2	1		61300411121	Würth Elektronik	Header, 2.54 mm, 4x1, Gold, TH	Header, 2.54mm, 4x1, TH
J3, J4, J5, J6	4		ED120/2DS	On-Shore Technology	TERMINAL BLOCK 5.08MM VERT 2POS, TH	TERM_BLK, 2pos, 5.08mm
R1, R2, R5, R6, R9, R10, R13, R14, R16, R17, R18, R19	12	100k	RC1206FR-07100KL	Yageo America	RES, 100 k, 1%, 0.25 W, 1206	1206
R3, R4, R22, R23, R25, R26, R75, R76	8	6.20k	RC0603FR-076K2L	Yageo America	RES, 6.20 k, 1%, 0.1 W, 0603	0603
R7, R8, R20, R21	4	0	RC0603JR-070RL	Yageo America	RES, 0, 5%, 0.1 W, 0603	0603
R11, R12, R15, R24	4	10.0	CRCW060310R0FKEA	Vishay-Dale	RES, 10.0, 1%, 0.1 W, 0603	0603
R27, R28, R30, R31, R33, R34, R40, R41, R49, R55, R56, R58, R59, R77, R80, R86, R87, R90, R91, R92, R95	21	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R29, R37	2	2.20k	RC0603FR-072K2L	Yageo America	RES, 2.20 k, 1%, 0.1 W, 0603	0603
R35, R36, R60	3	47k	RC0603JR-0747KL	Yageo America	RES, 47 k, 5%, 0.1 W, 0603	0603
R48	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
R81, R94	2	300	CRCW0603300RJNEA	Vishay-Dale	RES, 300 ohm, 5%, 0.1W, 0603	0603
R82	1	4.7	CRCW06034R70JNEA	Vishay-Dale	RES, 4.7, 5%, 0.1 W, 0603	0603
TP1, TP2, TP25, TP27, TP29	5	5001	5001	Keystone	Test Point, Black, Thru Hole Color Keyed	0.100 x 0.100 inch
U1	1		MSP430FR2111IPW16R	Texas Instruments	16 MHz Ultra-Low-Power Microcontroller With 4 KB FRAM, 1 KB SRAM, 12 IO, 8 ch ADC10, PW0016A (TSSOP-16)	PW0016A
U6	1		ISOW7841DWE	Texas Instruments	High Speed, 5000 VRMS Quad-Channel Digital Isolators, DW0016B	DW0016B
C1, C2, C5, C6	0	0.01uF	C1608C0G1E103J	TDK	CAP, CERM, 0.01uF, 25V, +/-5%, C0G/NP0, 0603	0603
D3, D4, D15, D16	0	5.1V	PTZTE255.1B	Rohm Semiconductor	DIODE ZENER 5.4V 1W PMDS	SMA
D6	0	30V	BAT54C-7-F	Diodes Inc.	Diode, Schottky, 30V, 0.2A, SOT-23	SOT-23
R32, R38, R39, R54, R79, R83, R84, R85, R96, R97	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
T1	0		750313638	TE connectivity	TRANSFORMER SMD	

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U2	0		TPS60241DGKR	Texas Instruments	5 V, Boost Charge Pump, 25 mA, 2.7 to 5.5 V Input with 2-Cell Alkaline / Nixx Input, -40 to 85 degC, 8-pin SOP (DGK8), Green (RoHS & no Sb/Br)	DGK0008A
U3	0		TPS22944DCKR	Texas Instruments	LOW-INPUT-VOLTAGE CURRENT-LIMITED LOAD SWITCHES WITH SHUT OFF AND AUTO-RESTART FEATURE, DCK0005A (SOT-5)	DCK0005A
U4	0		TPS70933DBVT	Texas Instruments	IC REG LDO 3.3V 0.15A SOT23-5	DBV0005A
U7	0		SN6505BDBVR	Texas Instruments	Low-Noise 1 A, 420 kHz Transformer Driver, DBV0006A (SOT-6)	DBV0006A