

BILL OF MATERIALS

TI Designs#

TIDA-00018

Fitted	Description	Designator	Manufacturer	PartNumber	Quantity	RoHS	PackageReference
Fitted	CAP, CERM, 0.01uF, 50V, +/-10%, X7R, 0603	C1, C4, C38, C46	Kemet	C0603C103K5RACTU	4	Y	0603
Fitted	CAP, CERM, 1000pF, 2KV 10% X7R 1206	C2, C19, C45, C67	Johanson Dielectrics Inc	202R18W102KV4E	4	Y	1206
Fitted	CAP, CERM, 0.47uF, 100V, +/-10%, X7R, 0805	C3	MuRata	GRM21BR72A474KA73L	1	Y	0805
Fitted	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603	C5, C11, C15, C20, C25, C31, C48, C65	TDK	C1608X7R1E105K080AB	8	Y	0603
Fitted	CAP, CERM, 10uF, 25V, +/-20%, X7R, 1210	C6, C9, C10	TDK	C3225X7R1E106M	3	Y	1210
Fitted	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	C7	AVX	06035C104KAT2A	1	Y	0603
Fitted	CAP, CERM, 3300pF, 50V, +/-10%, X7R, 0603	C8	MuRata	GRM188R71H332KA01D	1	Y	0603
Fitted	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	C12, C50	MuRata	GRM188R71H104KA93D	2	Y	0603
Fitted	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	C13, C16, C22, C23, C26, C27, C28, C33, C34, C36, C40, C41, C42, C43, C44, C49, C55, C57, C59, C60, C61, C62, C64, C66, C68, C69	Kemet	C0603C104K5RACTU	26	Y	0603
Fitted	CAP, CERM, 4700pF, 50V, +/-10%, X8R, 0603	C14, C24	TDK	C1608X8R1H472K	2	Y	0603
Fitted	CAP, CERM, 0.047uF, 50V, +/-10%, X7R, 0603	C17	TDK	C1608X7R1H473K	1	Y	0603
Fitted	CAP, CERM, 10uF, 35V, +/-20%, X7R, 1210	C18	Taiyo Yuden	GMK325AB7106MM-T	1	Y	1210
Fitted	CAP, CERM, 2.2uF, 100V, +/-10%, X7R, 1210	C21	MuRata	GRM32ER72A225KA35L	1	Y	1210
Fitted	CAP, CERM, 1000pF, 100V, +/-20%, X7R, 0603	C29	AVX	06031C102MAT2A	1	Y	0603
Fitted	CAP, CERM, 0.47uF, 25V, +/-10%, X7R, 0603	C32	MuRata	GRM188R71E474KA12D	1	Y	0603
Fitted	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603	C37	MuRata	GRM188R71E105KA12D	1	Y	0603
Fitted	CAP CER 1000PF 100V 10% X7R 1206	C39, C47, C51, C54, C58, C63	Yageo	CC1206KRX7R0BB102	6	Y	1206
Fitted	CAP, CERM, 3300pF, 50V, +/-10%, X7R, 0603	C52, C56	Kemet	C0603C332K5RACTU	2	Y	0603
Fitted	CAP, CERM, 0.033uF, 50V, +/-10%, X7R, 0603	C53	MuRata	GRM188R71H333KA61D	1	Y	0603
Fitted	Diode, Schottky, 200V, 1A, PowerDI123	D1, D3, D11	Diodes Inc.	DFLS1200-7	3	Y	PowerDI123
Fitted	DIODE ZENER 5.4V 1W PMDS	D2, D12	Rohm Semiconductor	PTZTE255.1B	2		DO-214AC, SMA
Fitted	TVS DIODE 11.1VWM 18.2VC SMD	D4, D5, D7, D9, D18, D21	Littelfuse Inc	P4SMA13CA	6		SMA
Fitted	Diode, P-N, 70V, 0.2A, SOT-323	D6, D10, D16, D17, D19, D20	Diodes Inc	DESD1P0RFW-7	6	Y	SOT-323
Fitted	LED SmartLED Green 570NM	D8, D13, D14	OSRAM	LG L29K-G2J1-24-Z	3		0603
Fitted	Diode, Schottky, 45V, 0.1A, SOD-523	D15	Diodes Inc.	SDM10U45-7-F	1	Y	SOD-523
Fitted	FERRITE CHIP 1000 OHM 100MA 0603	FB1, FB2, FB3, FB4, FB5, FB6	Murata Electronics North America	BLM18HG102SN1D	6	Y	0603
Fitted	CONN TERM BLOCK 2.54MM 4POS PCB	J1	On Shore Technology Inc	OSTVN04A150	1	Y	Header 4x1 keyed
Fitted	Circuit board mini connectors, type K	J2	OMEGA	PCC-SMP-K-5	1		
Fitted	Receptacle, 0.8mm, 25x2, SMT	J3	Samtec	ERF8-025-05.0-L-DV-K-TR	1	Y	25x2 Socket Strip
Fitted	Inductor, Wirewound, Ferrite, 6.8uH, 0.85A, 0.24 ohm, SMD	L1	MuRata	LQH32PN6R8NN0	1	Y	1210
Fitted	MOSFET, N-CH, 60V, 50A, SON 5x6mm	Q1	Texas Instruments Inc	CSD18537NQ5A	1	Y	SON 5x6mm
Fitted	RES, 14.7k ohm, 1%, 0.1W, 0603	R1	Yageo America	RC0603FR-0714K7L	1	Y	0603
Fitted	RES, 110k ohm, 1%, 0.1W, 0603	R2	Vishay-Dale	CRCW0603110KFKEA	1	Y	0603
Fitted	RES, 47.5k ohm, 1%, 0.1W, 0603	R3	Yageo America	RC0603FR-0747K5L	1	Y	0603
Fitted	RES, 2.0 ohm, 5%, 0.125W, 0805	R4	Panasonic	ERJ-6GEJ2R0V	1	Y	0805
Fitted	RES, 75.0k ohm, 1%, 0.1W, 0603	R5	Vishay-Dale	CRCW060375K0FKEA	1	Y	0603
Fitted	RES, 6.34k ohm, 1%, 0.1W, 0603	R6	Vishay-Dale	CRCW0603634FKEA	1	Y	0603
Fitted	RES, 137k ohm, 1%, 0.1W, 0603	R7	Vishay-Dale	CRCW0603137KFKEA	1	Y	0603
Fitted	RES, 46.4k ohm, 1%, 0.1W, 0603	R8	Yageo America	RC0603FR-0746K4L	1	Y	0603
Fitted	RES, 4.12k ohm, 0.1%, 0.1W, 0603	R9, R13	Susumu Co Ltd	RG1608P-4121-B-T5	2	Y	0603
Fitted	RES, 10.0k ohm, 0.1%, 0.1W, 0603	R10	Yageo America	RT0603BRD0710KL	1	Y	0603
Fitted	RES 249 OHM 1/10W 1% 0402 SMD	R11, R12, R40, R41, R43, R44	Panasonic Electronic Components	ERJ-2RKF2490X	6	Y	0402
Fitted	RES, 300 ohm, 5%, 0.1W, 0603	R14, R20, R30	Vishay-Dale	CRCW0603300RJNEA	3	Y	0603
Fitted	RES, 47 ohm, 5%, 0.1W, 0603	R15, R24, R25, R27, R28	Vishay-Dale	CRCW060347R0JNEA	5	Y	0603
Fitted	RES, 0.02 ohm, 1%, 1W, 1206	R16	Susumu Co Ltd	PRL1632-R020-F-T1	1	Y	1206
Fitted	RES, 4.7k ohm, 5%, 0.1W, 0603	R17, R35, R36	Yageo America	RC0603JR-074K7L	3	Y	0603
Fitted	RES, 71.5k ohm, 1%, 0.1W, 0603	R18	Vishay-Dale	CRCW060371K5FKEA	1	Y	0603
Fitted	RES, 56k ohm, 5%, 0.1W, 0603	R19	Yageo America	RC0603JR-0756KL	1	Y	0603
Fitted	RES, 14.7k ohm, 1%, 0.1W, 0603	R22	Vishay-Dale	CRCW060314K7FKEA	1	Y	0603
Fitted	RES, 1.00k ohm, 1%, 0.1W, 0603	R23	Vishay-Dale	CRCW06031K00FKEA	1	Y	0603
Fitted	RES, 1.0Meg ohm, 5%, 0.1W, 0603	R26, R29	Vishay-Dale	CRCW06031M00JNEA	2	Y	0603
Fitted	RES, 1.5k ohm, 5%, 0.063W, 0402	R31, R32, R33, R34	Vishay-Dale	CRCW04021K50JNED	4	Y	0402
Fitted	RES 2.49K OHM 1/4W 0.1% 1206	R37	Vishay-Dale	TNPW12062K49BEEA	1	Y	1206
Fitted	RES, 4.70k ohm, 0.1%, 0.1W, 0603	R38, R39	Susumu Co Ltd	RG1608P-472-B-T5	2	Y	0603
Fitted	RES, 95.3k ohm, 1%, 0.1W, 0603	R42	Vishay-Dale	CRCW060395K3FKEA	1	Y	0603
Fitted	RES, 499 ohm, 1%, 0.1W, 0603	R45, R47	Vishay-Dale	CRCW0603499RFKEA	2	Y	0603
Fitted	RES, 7.50k ohm, 1%, 0.1W, 0603	R46	Vishay-Dale	CRCW06037K50FKEA	1	Y	0603
Fitted	TRANSFORMER, ER9.5 PACKAGE, 260uH	T1	WURTH ELEKTRONIK	750342304	1	Y	ER9.5
Fitted	100V, 600mA Constant On-Time Synchronous Buck Regulator, DDA0008B	U1	Texas Instruments Inc	LM5017MRE/NOPB	1	Y	DDA0008B
Fitted	IC REG LDO ADJ .15A 8MSOP	U2	Texas Instruments Inc	TPS7A4901DGNR	1	Y	MSOP8
Fitted	1-O DUAL SPDT ANALOG SWITCH 5-V/3.3-V 2-CHANNEL 2:1 MULTIPLEXER/DEMULTIPLEXER, DGS0010A	U3, U7	Texas Instruments Inc	TS5A23159DGS	2	Y	DGS0010A
Fitted	50 mA, 24 V, 3.2-mA Supply Current Low-Dropout Linear Regulator, DCK0005A	U4	Texas Instruments Inc	TPS71533DCK	1	Y	DCK0005A
Fitted	low power,lpw noise analog to digital converter	U5	Texas Instruments Inc	ADS1220IPWR	1		TSSOP
Fitted	Positive High Voltage Hot Swap / Inrush Current Controller with Power Limiting, 10-pin MSOP, Pb-Free	U6	National Semiconductor	LM5069MM-2/NOPB	1	Y	MUB10A
Fitted	IC, 0.5 ° C Digital Out Temperature Sensor	U8	Texas Instruments Inc	TMP275AIDGK	1		MSOP-8
Fitted	4242-VPK Small-Footprint and Low-Power Quad Channels Digital Isolators, DBQ0016A	U9	Texas Instruments Inc	ISO7141CCDBQ	1	Y	DBQ0016A
Fitted	1.5V, Multi-Gain Analog Temperature Sensor with Class-AB Output, 5-pin SC-70, Pb-Free	U10	National Semiconductor	LM94022QBIMG/NOPB	1	Y	MAA05A
Fitted	IC DGTL ISO 3CH I2C 8SOIC	U11	Texas Instruments Inc	ISO1541DR	1	Y	8-SOIC
Fitted	IC I/O EXPANDER I2C 8B 16TSSOP	U12	Texas Instruments Inc	TCA6408APWR	1	Y	16-TSSOP
Fitted	IC, EEPROM, 2KBIT, 1MHZ, SOIC-8	U13	Atmel	AT24C02C-SSHMB	1	Y	SOIC-8
Not Fitted	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603	C30	Kemet	C0603C104K5RACTU	0	Y	0603
Not Fitted	CAP, CERM, 1uF, 25V, +/-10%, X7R, 0603	C35	TDK	C1608X7R1E105K080AB	0	Y	0603
Not Fitted	RES, 499 ohm, 1%, 0.1W, 0603	R21	Vishay-Dale	CRCW0603499RFKEA	0	Y	0603

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