

BILL OF MATERIALS

TI Designs#

TIDA-00168

Fitted	Description	Designator	Footprint	Manufacturer	PartNumber	Quantity	RoHS
Fitted	CAP, CERM, 2200pF, 6.3V, +/-10%, X7R, 0402	C26	0402	MuRata	GRM155R70J222KA01D	1	Y
Fitted	CAP, CERM, 10 µF, 10 V, +/- 10%, X7R, 0805	C30	0805	MuRata	GRM21BR71A106KE51L	1	Y
Fitted	CAP, CERM, 1uF, 50V, +/-10%, X7R, 0603	C7	0603	Taiyo Yuden	UMK107AB7105KA-T	1	Y
Fitted	CAP, CERM, 4.7uF, 6.3V, +/-10%, X5R, 0603	C8	0603	MuRata	GRM188R60J475KE19D	1	Y
Fitted	LED, Green, SMD	D10	LED_0603	Würth Elektronik eiSos	150060VS75000	1	Y
Fitted	LED, Yellow, SMD	D11	LED_0603	Würth Elektronik eiSos	150060YS75000	1	Y
Fitted	Diode, Zener, 3.813V, 1 W, SMA	D7	SMA	Rohm	PTZTE253.6B	1	Y
Fitted	LED, Green, SMD	D8	1.7x0.65x0.8mm	OSRAM	LG L29K-G2J1-24-Z	1	Y
Fitted	LED, Super Red, SMD	D9	LED_0603	Würth Elektronik eiSos	150060SS75000	1	Y
Fitted	Mounting bracket for PCC-SMP	H1		Omega	PCC-SMP-CLIP	1	Y
Fitted	Circuit Board Thermocouple Connector, Miniature Size, Type K, Horizontal installation, TH	J1	20.8x6.3x15.5 mm	Omega	PCC-SMP-K-5-R	1	Y
Fitted	TERMINAL BLOCK 5.08MM VERT 2POS, TH	J3	TERM_BLK, 2pos, 5.08mm	On-Shore Technology	ED120/2DS	1	Y
Fitted	Header (shrouded), 100 mil, 7x2, Gold plated, TH	J9	7x2 Shrouded Header	Sullins Connector Solution	SBH11-PBPC-D07-ST-BK	1	Y
Fitted	RES, 390 ohm, 5%, 0.1W, 0603	R12	0603	Yageo America	RC0603JR-07390RL	1	Y
Fitted	RES, 0 ohm, 5%, 0.063W, 0402	R13	0402	Vishay-Dale	CRCW04020000Z0ED	1	Y
Fitted	RES, 3.24k ohm, 0.1%, 0.333W, 1206	R14	1206	TT Electronics/IRC	PFC-W1206R-12-3241-B	1	Y
Fitted	RES, 47k ohm, 5%, 0.063W, 0402	R22	0402	Vishay-Dale	CRCW040247K0JNED	1	Y
Fitted	Temperature Sensor, 100ohm, TC=+3850ppm, TO-92, TH	RT1	TO-92, 2pin	Heraeus Sensor Technolo	32209210	1	
Fitted	Test Point, Miniature, Red, TH	TP3	Red Miniature Testpoint	Keystone	5000	1	Y
Fitted	Test Point, Multipurpose, Grey, TH	TP6	Grey Multipurpose Testpoint	Keystone	5128	1	Y
Fitted	Low-Power, Low-Noise, 24-Bit Analog-to-Digital Converter for Small Signal Sensors, RVA0016A	U1	RVA0016A	Texas Instruments	ADS1220IRVA	1	Y
Fitted	Low Noise, Very Low Drift, Precision Voltage Reference, -40 to 125 degC, 8-pin MSOP (DGK), Green (RoHS & no Sb/Br)	U2	DGK0008A	Texas Instruments	REF5020IDGKT	1	
Fitted	Low Noise, High-Bandwidth PSRR Low-Dropout 150mA Linear Regulator, DSE0006A	U3	DSE0006A	Texas Instruments	TPS71733DSE	1	Y
Fitted	MSP430FR5949 16 MHz Ultra-Low-Power Microcontroller featuring 64 KB FRAM, 2 KB SRAM, 33 IO, RHA0040B	U4	RHA0040B	Texas Instruments	MSP430FR5949IRHA	1	Y
Fitted	Remote 16-Bit I2C and SMBus, Low-Power I/O Expander with Interrupt Output and Config Register, 1.65 to 5.5 V, -40 to 85 degC, 24-pin QFN (RTW), Green (RoHS & no Sb/Br)	U5	RTW0024B	Texas Instruments	TCA9535RTWR	1	
Fitted	Crystal, Tuning Fork, 30kHz - 200kHz, SMD	Y1	6.7 x 1.40 mm	Micro Crystal AG	MS3V-T1R	1	
Fitted	CAP, CERM, 1uF, 10V, +/-10%, X7R, 0603	C14, C18	0603	MuRata	GRM188R71A105KA61D	2	Y
Fitted	CAP, CERM, 10uF, 6.3V, +/-10%, X7R, 0805	C20, C21	0805	MuRata	GRM21BR70J106KE76L	2	Y
Fitted	CAP, CERM, 10pF, 50V, +/-5%, C0G/NP0, 0402	C24, C25	0402	MuRata	GRM1555C1H100JA01D	2	Y
Fitted	CAP, CERM, 0.22uF, 6.3V, +/-10%, X5R, 0402	C3, C4	0402	MuRata	GRM155R60J224KE01D	2	Y
Fitted	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 1206	C31, C32	1206	AVX	12061C104KAT2A	2	Y
Fitted	CAP, CERM, 0.27uF, 6.3V, +/-10%, X5R, 0402	C5, C10	0402	MuRata	GRM155R60J274KE01D	2	Y
Fitted	Diode, Switching, 70V, 0.215A, SOT-23	D2, D3	SOT-23	Micro Commercial Compon	BAV199-TP	2	Y
Fitted	Diode, Schottky, 40V, 0.5A, SOD-123	D5, D6	SOD-123	ON Semiconductor	MBR0540T1G	2	Y
Fitted	Connector, Receptacle, 100mil, 10x2, Gold plated, TH	J4, J10	HEADER, RECEPTACLE, 100mil, 10x2	Samtec, Inc.	SSW-110-23-F-D	2	Y
Fitted	RES, 10.0 ohm, 1%, 0.1W, 0603	R1, R11	0603	Vishay-Dale	CRCW060310R0FKEA	2	Y
Fitted	RES, 100 k, 5%, 0.063 W, 0402	R15, R16	0402	Vishay-Dale	CRCW0402100KJNED	2	Y
Fitted	RES, 2.00Meg ohm, 1%, 0.063W, 0402	R2, R10	0402	Vishay-Dale	CRCW04022M00FKED	2	Y
Fitted	RES, 1.5k ohm, 5%, 0.063W, 0402	R20, R21	0402	Vishay-Dale	CRCW04021K50JNED	2	Y
Fitted	Switch, Push Button, SMD	S1, S2	2.9x2x3.9mm SMD	Alps	SKRKAEE010	2	Y
Fitted	Test Point, Multipurpose, White, TH	TP1, TP2	White Multipurpose Testpoint	Keystone	5012	2	Y
Fitted	Test Point, Multipurpose, Black, TH	TP4, TP5	Black Multipurpose Testpoint	Keystone	5011	2	Y
Fitted	CAP, CERM, 2.2uF, 10V, +/-10%, X7R, 0603	C13, C15, C16	0603	MuRata	GRM188R71A225KE15D	3	Y
Fitted	RES, 470, 5%, 0.063 W, 0402	R17, R18, R19	0402	Vishay-Dale	CRCW0402470RJNED	3	Y
Fitted	RES, 47 ohm, 5%, 0.063W, 0402	R5, R6, R7	0402	Vishay-Dale	CRCW0402470RJNED	3	Y
Fitted	CAP, CERM, 1uF, 10V, +/-10%, X5R, 0402	C1, C2, C11, C12	0402	MuRata	GRM155R61A105KE15D	4	Y
Fitted	CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0402	C6, C9, C28, C29	0402	TDK	C1005X7R1H104K050BB	4	Y
Fitted	Diode, TVS, Uni, 13V, 600W, SMD, 2-Leads, Body 4x2.7mm, Height 1.1mm	D1, D4, D12, D13	SMD, 2-Leads, Body 4x2.7mm, Height 1.1mm	NXP Semiconductor	PTVS13VP1UP_115	4	Y
Fitted	RES, 499, 1%, 0.063 W, 0402	R3, R4, R8, R9	0402	Vishay-Dale	CRCW0402499RFKED	4	Y
Fitted	CAP, CERM, 0.1uF, 10V, +/-10%, X7R, 0402	C17, C19, C22, C23, C27	0402	MuRata	GRM155R71A104KA01D	5	Y
Fitted	Header, 100mil, 3x1, Tin plated, TH	J2, J5, J6, J7, J8	Header, 3 PIN, 100mil, Tin	Sullins Connector Solution	PEC03SAAN	5	Y
Fitted	Shunt, 100mil, Gold plated, Black	SH-J1, SH-J2, SH-J3, SH-J4, SH-J5	Shunt	3M	969102-0000-DA	5	Y
Fitted	Fiducial mark. There is nothing to buy or mount.	FID1, FID2, FID3, FID4, FID5, FID6	Fiducial	N/A	N/A	6	
Not Fitted	RES, 2.00Meg ohm, 1%, 0.063W, 0402	R23	0402	Vishay-Dale	CRCW04022M00FKED	0	Y

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