

## TIDA-01600

Fitted	Description	Designator	PartNumber	Quantity	Manufacturer	PackageReference	Value
Fitted	CAP, CERM, 10 µF, 50 V, +/- 10%, X7R, 1206	C1	CL31B106KBHNNNE	1	Samsung Electro-Mechanics	1206	10uF
Fitted	CAP, CERM, 0.022 µF, 16 V, +/- 10%, X7R, 0603	C2, C3	C0603C223K4RACTU	2	Kemet	0603	0.022uF
Fitted	CAP, CERM, 22 µF, 16 V, +/- 20%, X7R, 1206	C4, C5	EMK316BB7226ML-T	2	Taiyo Yuden	1206	22uF
Fitted	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	C6	C1608X7R1H104K080AA	1	TDK	0603	0.1uF
Fitted	CAP, CERM, 4.7 µF, 16 V, +/- 10%, X7R, 0805	C7, C9	GRM21BR71C475KA73L	2	MuRata	0805	4.7uF
Fitted	CAP, CERM, 10 µF, 50 V, +/- 10%, X7R, 1210	C8, C11	GRM32ER71H106KA12L	2	MuRata	1210	10uF
Fitted	CAP, CERM, 1 µF, 50 V, +/- 10%, X7R, 1206	C10	GRM31MR71H105KA88L	1	MuRata	1206	1uF
Fitted	CAP, CERM, 0.1 µF, 10 V, +/- 10%, X7R, 0603	C12, C13, C14	0603ZC104KAT2A	3	AVX	0603	0.1uF
Fitted	Diode, Zener, 5.1 V, 500 mW, SOD-123	D1	MMSZ5231B-7-F	1	Diodes Inc.	SOD-123	5.1V
Fitted	Diode, Superfast Rectifier, 50 V, 3 A, SMB	D3	ES3AB-13-F	1	Diodes Inc.	SMB	50V
Fitted	Diode, Switching, 200 V, 0.2 A, SOD-123	D4	BAV21W-7-F	1	Diodes Inc.	SOD-123	200V
Fitted	Diode, Zener, 3.3 V, 500 mW, SOD-123	D5	MMSZ5226B-7-F	1	Diodes Inc.	SOD-123	3.3V
Fitted	LED, Green, SMD	D6	LNJ337W83RA	1	Panasonic	1.6x0.8mm	Green
Fitted	Fiducial mark. There is nothing to buy or mount.	FID4, FID5, FID6	N/A	3	N/A	Fiducial	
Fitted	Machine Screw, Round, #4-40 x 1/4, Nylon, Phillips panhead	H1, H2, H3, H4	NY PMS 440 0025 PH	4	B&F Fastener Supply	Screw	
Fitted	Standoff, Hex, 0.5"L #4-40 Nylon	H5, H6, H7, H8	1902C	4	Keystone	Standoff	
Fitted	Terminal Block, 2x1, 2.54mm, TH	J1, J2, J5	282834-2	3	TE Connectivity	Terminal Block, 2x1, 2.54mm, TH	
Fitted	Header, 100mil, 10x2, Gold, TH	J3, J4	TSW-110-07-G-D	2	Samtec	10x2 Header	
Fitted	Inductor, Shielded, Powdered Iron, 2.2 µH, 2.3 A, 0.082 ohm, SMD	L1	DFE252012F-2R2M=P2	1	MuRata Toko	2.5x1.2x2mm	2.2uH
Fitted	RES, 68.1 k, 1%, 0.25 W, 1206	R1	CRCW120668K1FKEA	1	Vishay-Dale	1206	68.1k
Fitted	RES, 11.8 k, 1%, 0.25 W, 1206	R2	CRCW120611K8FKEA	1	Vishay-Dale	1206	11.8k
Fitted	RES, 61.9 k, 1%, 0.25 W, 1206	R3	RC1206FR-0761K9L	1	Yageo America	1206	61.9k
Fitted	RES, 1.07 k, 1%, 0.1 W, 0603	R4	CRCW06031K07FKEA	1	Vishay-Dale	0603	1.07k
Fitted	RES, 3.32 k, 0.5%, 0.1 W, 0603	R5	RT0603DRE073K32L	1	Yageo America	0603	3.32k
Fitted	RES, 0, 5%, 0.1 W, 0603	R6, R7, R8, R9, R10	ERJ-3GEY0R00V	5	Panasonic	0603	0
Fitted	RES, 4.7 k, 5%, 0.1 W, 0603	R11, R12, R14, R15, R16, R17	CRCW06034K70JNEA	6	Vishay-Dale	0603	4.7k
Fitted	RES, 3.0 k, 5%, 0.1 W, 0603	R13	CRCW06033K00JNEA	1	Vishay-Dale	0603	3.0k
Fitted	RES, 1.2 k, 5%, 0.125 W, 0805	R18	CRCW08051K20JNEA	1	Vishay-Dale	0805	1.2k
Fitted	RES, 1.0 k, 5%, 0.1 W, 0603	R19	CRCW06031K00JNEA	1	Vishay-Dale	0603	1.0k
Fitted	RES, 4.7, 5%, 0.75 W, AEC-Q200 Grade 0, 2010	R20, R25	CRCW20104R70JNEF	2	Vishay-Dale	2010	4.7
Fitted	RES, 220, 5%, 0.1 W, 0603	R21	CRCW0603220RJNEA	1	Vishay-Dale	0603	220
Fitted	RES, 10.2 k, 1%, 0.1 W, 0603	R22	CRCW060310K2FKEA	1	Vishay-Dale	0603	10.2k
Fitted	RES, 1.65 k, 1%, 0.1 W, 0603	R23	CRCW06031K65FKEA	1	Vishay-Dale	0603	1.65k
Fitted	RES, 50, 1%, 0.1 W, 0603	R24	CRCW060350R0FKEA	1	Vishay-Dale	0603	50
Fitted	Test Point, Miniature, Red, TH	TP1, TP2, TP5, TP6	5000	4	Keystone	Red Miniature Testpoint	
Fitted	Test Point, Miniature, Black, TH	TP4, TP7	5001	2	Keystone	Black Miniature Testpoint	

Fitted	1A SIMPLE SWITCHER® Power Module with 42V Maximum Input, 7 pin TO-PMOD	U1	LMZ14201TZ-ADJ/NOPB	1	Texas Instruments	TZA07A	
Fitted	4242-Vpk Small Footprint and Low-Power 2/2 Quad Channel Digital Isolator with Noise Filter, DBQ0016A (SSOP-16)	U2	ISO7142CCDBQ	1	Texas Instruments	DBQ0016A	
Fitted	High Voltage Ultra Low Iq - Low Drop Out Regulator, DBV0005A (SOT-23-5)	U3	TPS7B6933QDBVRQ1	1	Texas Instruments	DBV0005A	
Fitted	40 V, 80 mOhm Single-Channel High-Side Switch, PWP0014C (TSSOP-14)	U4	TPS27S100APWPR	1	Texas Instruments	PWP0014C	
Fitted	HIGH-VOLTAGE, HIGH-CURRENT DARLINGTON TRANSISTOR ARRAYS, PW0016A (TSSOP-16)	U5	ULN2003APWR	1	Texas Instruments	PW0016A	
Fitted	33V Precision Surge Protection Clamp, DRV0006A (WSON-6)	U6, U7	TVS3300DRVR	2	Texas Instruments	DRV0006A	
Not Fitted	Fiducial mark. There is nothing to buy or mount.	FID1, FID2, FID3	N/A	0	N/A	Fiducial	
Not Fitted	RES, 0, 5%, 0.125 W, 0805	R26	CRCW08050000Z0EA	0	Vishay-Dale	0805	0

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