

TIDA-01393

Fitted	Description	Designator	PartNumber	Quantity	Manufacturer	PackageReference	Value
Fitted	Printed Circuit Board	PCB1	TIDA-01393	1	Any		
Fitted	CAP, CERM, 2.2 μ F, 6.3 V, +/- 10%, XSR, 0402	C1, C2, C43	CL05A225KQ5NNNC	3	Samsung	0402	2.2uF
Fitted	CAP, AL, 47 μ F, 35 V, +/- 20%, 0.36 ohm, SMD	C3	EMZA350ADA470M F61G	1	Chem-Con	F61	47uF
Fitted	CAP, CERM, 10 μ F, 10 V, +/- 10%, XSR, 0603	C4, C5, C6, C7, C74	GRM188R61A106KA ALD	5	MuRata	0603	10uF
Fitted	CAP, CERM, 1 μ F, 10 V, +/- 20%, XSR, 0201	C8, C17, C59, C61	GRM033R61A105ME 15D	4	MuRata	0201	1uF
Fitted	CAP, CERM, 4.7 μ F, 6.3 V, +/- 20%, XSR, 0402	C9, C14, C30, C34, C36	C1005X5R0J475M05 08C	5	TDK	0402	4.7uF
Fitted	CAP, CERM, 0.1 μ F, 25 V, +/- 10%, X6S, 0201	C10, C11, C16, C38	GRM033C81E104KE1 4D	4	MuRata	0201	0.1uF
Fitted	CAP, CERM, 1 μ F, 35 V, +/- 20%, XSR, 0402	C12, C13	GRM155R6YA105ME 11D	2	MuRata	0402	1uF
Fitted	CAP, CERM, 4.7 μ F, 10 V, +/- 20%, XSR, 0402	C15	C1005X5R1A475M05 08C	1	TDK	0402	4.7uF
Fitted	CAP, CERM, 22 μ F, 25 V, +/- 20%, XSR, 0805	C18, C20, C24, C44	GRM21BR61E226ME 44L	4	MuRata	0805	22uF
Fitted	CAP, CERM, 0.1 μ F, 25 V, +/- 10%, XSR, 0201	C19, C25, C45	GRM033R61E104KE1 4J	3	MuRata	0201	0.1uF
Fitted	CAP, CERM, 47 μ F, 10 V, +/- 20%, XSR, 0805	C22, C23, C27, C28, C71, C72	GRM21BR61A476ME 15L	6	MuRata	0805	47uF
Fitted	CAP, CERM, 22 μ F, 10 V, +/- 20%, XSR, 0603	C29, C39, C40, C46, C49, C56	GRM187R61A226ME 15D	6	MuRata	0603	22uF
Fitted	CAP, CERM, 1 μ F, 6.3 V, +/- 20%, XSR, 0201	C31, C32, C33	GRM033R60J105ME A2D	3	MuRata	0201	1uF
Fitted	CAP, CERM, 10 μ F, 6.3 V, +/- 20%, XSR, 0603	C35	GRM188R60J106ME 47D	1	MuRata	0603	10uF
Fitted	CAP, CERM, 0.1 μ F, 16 V, +/- 10%, XSR, 0201	C37	GRM033R61C104KE 14D	1	MuRata	0201	0.1uF
Fitted	CAP, CERM, 0.1 μ F, 100 V, +/- 10%, X7R, 1206	C41	12061C104KAT2A	1	AVX	1206	0.1uF
Fitted	CAP, CERM, 10 μ F, 35 V, +/- 10%, XSR, 0805	C42	GRM21BR6YA106KE 43L	1	MuRata	0805	10uF
Fitted	CAP, CERM, 47 μ F, 6.3 V, +/- 20%, XSR, 0603	C52	GRM188R60J476ME 15D	1	MuRata	0603	47uF
Fitted	CAP, CERM, 22 μ F, 10 V, +/- 20%, XSR, 0603	C60, C62	GRM188R61A226ME 15D	2	MuRata	0603	22uF
Fitted	CAP, CERM, 390 pF, 16 V, +/- 10%, X7R, 0201	C73	GRM033R71C391KA 01D	1	MuRata	0201	390pF
Fitted	LED, Green, SMD	D1	150060GS75000	1	Wurth Elektronik	LED_0603	Green
Fitted	Diode, Schottky, 30 V, 0.5 A, 0402 Diode	D2	NSR05F30NXT5G	1	ON Semiconductor	0402 Diode	30V
Fitted	Diode, Schottky, 20 V, 0.5 A, SOD-123	D3	MBR0520LT1G	1	ON Semiconductor	SOD-123	20V

Fitted	Bumpon, Hemisphere, 0.44 X 0.20, Clear	H9, H10, H11, H12	SJ-5303 (CLEAR)		4	3M	Transparent Bumpon	
Fitted	Terminal Block, 2x1, 5mm, Green, TH	J1, J2, J3, J4, J5, J6, J7, J8, J9, J10, J11, J12, J13, J14, J15	1935776		15	Phoenix Contact	Terminal Block, 2x1, 5mm, TH	
Fitted	Header, 2.54mm, 4x2, Gold, SMT	J16	TSM-104-01-L-DV		1	Samtec	Header, 2.54mm, 4x2, SMT	
Fitted	Header, 2.54 mm, 2x1, Gold, R/A, SMT	J17, J18, J19, J21, J22	87898-0204		5	Molex	Header, 2.54 mm, 2x1, R/A, SMT	
Fitted	FFC/FPC Connector, 6 POS, 0.5mm, R/A, Tin, SMT	J20	52745-0633		1	Molex	FFC/FPC Connector, 6 POS, 0.5mm, R/A, SMT	
Fitted	Header (shrouded), 100mil, 5x2, High-Temperature, Gold, TH	J23	N2510-6002-RB		1	3M	5x2 Shrouded header	
Fitted	Inductor, Shielded, 2.2 uH, 4.7 A, 0.029 ohm, SMD	L1	74438356022		1	Würth Elektronik	4.1x4.1mm	2.2uH
Fitted	Inductor, Wirewound, 470 nH, 4.8 A, 0.018 ohm, SMD	L2	744383360047		1	Würth Elektronik	SMD, 2-Leads, Body 3.2x3.2mm	470nH
Fitted	Inductor, Shielded, 470 nH, 1.5 A, 0.1 ohm, SMD	L3, L4, L5	74479262147		3	Würth Elektronik	1.6x0.8mm	470nH
Fitted	Inductor, Shielded, 1 uH, 1.8 A, 0.078 ohm, SMD	L6	74479275210		1	Würth Elektronik	2x1.25mm	1uH
Fitted	Inductor, Shielded, Metal Composite, 4.7 uH, 1.6 A, 0.157 ohm, SMD	L7	DFE322512F-4R7M=P2		1	MuRata	Inductor, 3.2x2.5mm, SMT	4.7uH
Fitted	Inductor, Shielded, Powdered Iron, 22 uH, 5 A, 0.064 ohm, AEC-Q200 Grade 1, SMD	L8	SRP1038A-220M		1	Bourns	11x10mm	22uH
Fitted	Synchronous Buck NexFET Power Block II, MPC0005A (PTAB-5)	Q1, Q2, Q3	CSD87381P		3	Texas Instruments	MPC0005A	
Fitted	RES, 100 k, 5%, 0.063 W, 0402	R1, R2, R3, R4, R5, R6, R14, R15, R16, R17, R18	CRCW0402100KJNE D		11	Vishay-Dale	0402	100k
Fitted	RES, 294 k, 1%, 0.063 W, 0402	R7	CRCW0402294KFKE D		1	Vishay-Dale	0402	294k
Fitted	RES, 25.5 k, 1%, 0.063 W, 0402	R8	CRCW040225K5FKE D		1	Vishay-Dale	0402	25.5k
Fitted	RES, 9.31 k, 1%, 0.063 W, 0402	R9	CRCW04029K31FKE D		1	Vishay-Dale	0402	9.31k
Fitted	RES, 11 k, 5%, 0.063 W, 0402	R10	CRCW040211K0JNE D		1	Vishay-Dale	0402	11k
Fitted	RES, 1.0 k, 5%, 0.063 W, 0402	R11, R19, R20	CRCW04021K00JNE D		3	Vishay-Dale	0402	1.0k
Fitted	RES, 200 k, 5%, 0.063 W, 0402	R12	CRCW0402200KJNE D		1	Vishay-Dale	0402	200k
Fitted	RES, 1.5 k, 5%, 0.063 W, 0402	R13	CRCW04021K50JNE D		1	Vishay-Dale	0402	1.5k
Fitted	RES, 100 k, 1%, 0.0625 W, 0402	R21	RC0402FR-07100KL		1	Yageo America	0402	100k
Fitted	RES, 51.1 k, 1%, 0.05 W, 0201	R22	RC0201FR-0751K1L		1	Yageo America	0201	51.1k
Fitted	RES, 1.18 k, 1%, 0.063 W, 0402	R23	CRCW04021K18FKE D		1	Vishay-Dale	0402	1.18k
Fitted	RES, 0, 5%, 0.063 W, 0402	R24, R25, R29	CRCW0402000020E D		3	Vishay-Dale	0402	0
Fitted	RES, 0, 1%, 0.5 W, 1206	R27, R34	5108		2	Keystone	1206	0
Fitted	RES, 5.23 k, 1%, 0.05 W, 0201	R30	RC0201FR-075K23L		1	Yageo America	0201	5.23k
Fitted	RES, 13.3 k, 1%, 0.05 W, 0201	R31	RC0201FR-0713K3L		1	Yageo America	0201	13.3k
Fitted	Switch, SPST 6Pos, SMT	S1	SDA06H1SBD		1	C&K Components	10.4x3.9x9.3mm	
Fitted	SWITCH TACTILE SPST-NO 0.05A 12V	S2	B3U-1000P		1	Omron Electronic Components	3x1.6x2.5mm	

Fitted	Test Point, Miniature, SMT	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP10, TP11, TP12, TP19, TP20, TP39, TP40, TP43, TP44, TP47, TP48, TP49	5015		19	Keystone	Testpoint_Keystone, Miniature	
Fitted	Test Point, Miniature, Red, TH	TP8, TP13, TP15, TP17, TP21, TP23, TP25, TP27, TP29, TP31, TP33, TP35, TP37, TP41, TP45	5000		15	Keystone	Red Miniature Testpoint	
Fitted	Test Point, Miniature, Black, TH	TP9, TP14, TP16, TP18, TP22, TP24, TP26, TP28, TP30, TP32, TP34, TP36, TP38, TP42, TP46	5001		15	Keystone	Black Miniature Testpoint	
Fitted	Configurable Multi-Rail PMIC for Xilinx MPSoCs and FPGAs, RSK0064C (VQFN-64)	U1	TPS6508641RSKT		1	Texas Instruments	RSK0064C	
Fitted	Single Schmitt-Trigger Inverter, DCX0005A (SOT-SC70-5)	U2	SN74LVC1G14DCKR		1	Texas Instruments	DCX0005A	
Fitted	SINGLE D-TYPE FLIP-FLOP WITH ASYNCHRONOUS CLEAR, DCX0006A (SOT-6)	U3	SN74LVC1G175DCKR		1	Texas Instruments	DCX0006A	
Fitted	Single Schmitt-Trigger Buffer, DCX0005A, LARGE T&R	U4	SN74LVC1G17DCKR		1	Texas Instruments	DCX0005A	
Fitted	4.5-V to 28-V Input, 3-A Output Synchronous Step-Down Converter, DDC0006A (SOT-6)	U5	TPS54308DDCR		1	Texas Instruments	DDC0006A	
Fitted	Ultra-Low On-Resistance, 4-A Integrated Load Switch with Controlled Turn-on, YZP0008ADCD (DSBGA-8)	U6, U7	TPS22920YZPR		2	Texas Instruments	YZP0008ADCD	
Fitted	SIMPLE SWITCHER(R) 2.7V to 14V, 1A Step-Up Regulator in SOT-23 Package, DBV0005A (SOT-23-5)	U8	LMR64010XMF/NO PB		1	Texas Instruments	DBV0005A	
Not Fitted	CAP, CERM, 22 µF, 10 V, +/- 20%, XSR, 0603	C21, C26, C47, C48, C50, C51, C54, C55, C57, C58, C64, C65, C67, C68, C70	GRM187R61A226ME15D		0	MuRata	0603	22uF
Not Fitted	CAP, CERM, 10 µF, 10 V, +/- 10%, XSR, 0603	C53, C66	GRM188R61A106KALD		0	MuRata	0603	10uF
Not Fitted	CAP, CERM, 5 pF, 50 V, +/- 1%, COG/NP0, 0201	C63	GRM0335C1H5R0WA01D		0	MuRata	0201	5pF
Not Fitted	CAP, CERM, 4.7 µF, 10 V, +/- 20%, XSR, 0402	C69	C1005XSR1A475M050BC		0	TDK	0402	4.7uF
Not Fitted	Fiducial mark. There is nothing to buy or mount.	FID1, FID2, FID3	N/A		0	N/A	Fiducial	
Not Fitted	RES, 0, 1%, 0.5 W, 1206	R26, R28, R32, R33	5108		0	Keystone	1206	0

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