

Variant:001

TID#: TIDA-050053

TIDA-050053 Bill of Materials

Fitted	Description	Designator	PartNumber	Quantity	Manufacturer	PackageReference	Value
Fitted	Printed Circuit Board	!PCB1	TIDA-050053	1	Any		
Fitted	CAP, CERM, 0.1 μ F, 50 V, +/- 10%, X7R, AEC-Q200 Grade	C1, C5, C9, C13	C0603C104K5RAC AUTO7411	4	Kemet	0603	0.1 μ F
Fitted	CAP, CERM, 22 μ F, 35 V, +/- 20%, X5R, 1206	C2, C3, C4	C3216X5R1V226M 160AC	3	TDK	1206	22 μ F
Fitted	CAP, CERM, 10 μ F, 50 V, +/- 10%, X7R, AEC-Q200 Grade	C7, C8	C3216X7R1H106K 160AC	2	TDK	1206	10 μ F
Fitted	CAP, CERM, 0.033 μ F, 50 V, +/- 5%, X7R, 0603	C10	06035C333JAT2A	1	AVX	0603	0.033 μ F
Fitted	CAP, CERM, 47 pF, 50 V, +/- 5%, C0G/NP0, 0603	C11	C0603C470J5GAC 7411	1	Kemet	0603	47pF
Fitted	Fiducial mark. There is nothing to buy or mount.	FID1, FID2, FID3	N/A	3	N/A	N/A	
Fitted	Terminal Block, 5.08 mm, 2x1, Brass, TH	J1, J2	ED120/2DS	2	On-Shore Technology	2x1 5.08 mm Terminal Block	
Fitted	Header, 100mil, 2x1, Gold, TH	JP1	PBC02SAAN	1	Sullins Connector Solutions	Sullins 100mil, 1x2, 230 mil above insulator	
Fitted	Inductor, Shielded, Hyperflux, 12 μ H, 6.5 A, 0.01936	L1	744770112	1	Würth Elektronik	6.65x6.45mm	12 μ H
Fitted	Thermal Transfer Printable Labels, 0.650" W x 0.200"	LBL1	THT-14-423-10	1	Brady	PCB Label 0.650 x 0.200 inch	
Fitted	Transistor, PNP, 100V, 2A, SOT-23	Q1	ZXTP19100CFFTA	1	Diodes Inc.	SOT-23	0.275V
Fitted	RES, 0, 5%, 0.1 W, 0603	R1, R5, R6	RC0603JR-070RL	3	Yageo	0603	0
Fitted	RES, 49.9, 1%, 0.1 W, 0603	R2	RC0603FR-0749R9L	1	Yageo	0603	49.9
Fitted	RES, 53.6 k, 1%, 0.1 W, 0603	R3	RC0603FR-0753K6L	1	Yageo	0603	53.6k

Fitted	RES, 10.2 k, 1%, 0.1 W, 0603	R4	RC0603FR- 0710K2L	1	Yageo	0603	10.2k
Fitted	RES, 45.3k ohm, 1%, 0.1W, 0603	R7	RC0603FR- 0745K3L	1	Yageo	0603	45.3k
Fitted	RES, 24.9k ohm, 1%, 0.1W, 0603	R8	RC0603FR- 0724K9L	1	Yageo	0603	24.9k
Fitted	RES, 49.9k ohm, 1%, 0.1W, 0603	R9	RC0603FR- 0749K9L	1	Yageo America	0603	49.9k
Fitted	RES, 10k ohm, 1%, 0.1W, 0603	R10	RC0603FR-0710KL	1	Yageo	0603	10k
Fitted	RES, 63.4k ohm, 1%, 0.1W, 0603	R11	RC0603FR- 0763K4L	1	Yageo	0603	63.4k
Fitted	RES, 13.2k ohm, 1%, 0.1W, 0603	R12	RT0603BRD0713K 2L	1	Yageo	0603	13.2k
Fitted	Terminal, Turret, TH, Double	TP1, TP2, TP5, TP6	1502-2	4	Keystone	Keystone1502- 2	
Fitted	Test Point, Multipurpose, Red, TH	TP3, TP7, TP16	5010	3	Keystone	Red Multipurpose Testpoint	
Fitted	Test Point, Multipurpose, Black, TH	TP4, TP8, TP13, TP14, TP15	5011	5	Keystone	Black Multipurpose Testpoint	
Fitted	Test Point, Multipurpose, Yellow, TH	TP9, TP10, TP11, TP12	5014	4	Keystone	Yellow Multipurpose Testpoint	
Fitted	3.8-V to 30-V Input, 3-A/2-A, 300kHz-2.2MHz,	U1	TPS62933DRLR	1	Texas Instruments	FCSOT8	
Fitted	Adjustable Precision Zener Shunt Regulator, 3-	U2	LM431BCM3	1	National Semiconductor	MF03A	
Not Fitted	CAP, CERM, 10 μ F, 50 V, +/- 10%, X7R, AEC-Q200 Grade	C6	C3216X7R1H106K 160AC	0	TDK	1206	10uF

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