

Variant: 001
Generated: 7/28/2022 9:07 AM
TID #: 050060



TIDA-050060 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		TIDA-050060	Any	Printed Circuit Board	
2	C1, C4, C7, C8, C9, C16, C17, C18, C19, C20, C24, C25, C26, C27, C28, C29	16	0.1uF	GCM155R71C104KA55D	MuRata	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	402
3	C2	1	0.01uF	CGA2B3X7R1H103K050BB	TDK	CAP, CERM, 0.01 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	402
4	C3, C12, C14, C22, C23, C30, C31, C32, C34, C35	10	1uF	GCM188R71C105KA64J	MuRata	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603
5	C5, C6	2	10uF	GCM21BR71A106KE22L	MuRata	CAP, CERM, 10 uF, 10 V, +/- 10%, X7R, 0805	805
6	C10, C11, C13, C33	4	4.7uF	CGA4J3X7R1C475K125AE	TDK	CAP, CERM, 4.7 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0805	805
7	C15, C21	2	2.2uF	GCM188R70J225KE22D	MuRata	CAP, CERM, 2.2 uF, 6.3 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	603
8	J1	1		ST5-30-1.50-L-D-P-TR	Samtec	Header(unshrouded), 0.5mm, 30x2, Gold, SMT	Header(unshrouded), 0.5mm, 30x2, SMT
9	L1	1	220 ohm	BLM15AG221SN1D	MuRata	Ferrite Bead, 220 ohm @ 100 MHz, 0.45 A, 0402	402
10	R1, R7, R9, R12, R13	5	4.7k	RC0201JR-074K7L	Yageo America	RES, 4.7 k, 5%, 0.05 W, 0201	201
11	R2	1	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	402
12	R10, R15	2	0	ERJ-1GE0R00C	Panasonic	RES, 0, 5%, 0.05 W, AEC-Q200 Grade 1, 0201	201
13	U2	1		IMX623-AAQV-W	Sony	Diagonal 7.45mm (Type 1/2.42) CMOS Solid-State Image Sensor with Square Pixel and RGB Filter Array	BGA144
14	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
15	R3	0	22	ERJ-2GEJ220X	Panasonic	RES, 22, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	402
16	R4, R5, R6, R8, R16, R17	0	0	ERJ-1GE0R00C	Panasonic	RES, 0, 5%, 0.05 W, AEC-Q200 Grade 1, 0201	201
17	R11, R14	0	4.7k	RC0201JR-074K7L	Yageo America	RES, 4.7 k, 5%, 0.05 W, 0201	201
18	U1	0		W25Q40EWUXJE	Winbond	W (4M-bit) Serial Flash memory, Dual/Quad SPI (XIP), USON2x3mm	USON8
19	Y1	0		DSC6101HA3B-024.0000	Microchip Technology	XO (Standard) CMOS Oscillator 1.71V ~ 3.63V Enable/Disable 4-VFLGA	VFLGA4