

TIDA-01480 REV E2 Bill of Materials



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
2	C1, C14, C16, C18, C34, C44, C46	7	3.3uF	GRM155R71A104K01D	MuRata	Printed Circuit Board	0402
3	C2, C15, C19, C20, C24, C27, C37, C41, C44, C46, C49	10	3.3uF	GRM188R7A225KE15D	MuRata	CAP, CERAM, 2.2 uF, 10 V, +/-10%, X7R, 0603	0603
4	C3, C4, C5, C6, C16, C17, C20, C21, C26, C28, C30, C31, C36, C39, C45, C48	16	22uF	C20120751A22MM125AC	TDK	CAP, CERAM, 22 uF, 10 V, +/-20%, X5R, 0805	0805
5	C7, C8, C11, C14, C15	4	1uF	BB0121N0017	Bush Electronics	CAP, CERAM, 1 uF, 16 V, +/-20%, X5R, 0603	0603
6	C8, C12, C13, C33, C34, C36, C38, C39, C40, C46, C48, C70	14	22uF	C322507N1C22BK250AC	TDK	CAP, CERAM, 22 uF, 16 V, +/-10%, X7R, 1210	1210
7	C22, C47	2	1000pF	GRM155R71H15KX01D	MuRata	CAP, CERAM, 1500 pF, 50 V, +/-10%, 0R, 0402	0402
8	C25, C26	2	4.7uF	BB022202026	Bush Electronics	CAP, CERAM, 4.7 uF, 10 V, +/-10%, 0R, 0605	0605
9	C41, C46, C49	3	1000pF	GRM155R71H15KX01D	MuRata	CAP, CERAM, 1 uF, 16 V, +/-20%, X5R, 0603	0603
10	C58, C59, C60, C61, C76, C78	8	4.7uF	GRM32ERT1A476KE15L	MuRata	CAP, CERAM, 4.7 uF, 10 V, +/-10%, X7R, 1210	1210
11	C27, C28	2	22uF	GRM1555R1E470M01D	MuRata	CAP, CERAM, 47 uF, 25 V, +/-5%, COG/NPQ, 0805	0805
12	C63, C67	2	4.7uF	C0805180T1A470K050AC	TDK	CAP, CERAM, 4.7 uF, 10 V, +/-10%, 0R, 0603	0603
13	C47, C49	2	3.3uF	C1007071H100K050B	TDK	CAP, CERAM, 0.33 uF, 50 V, +/-10%, X7R, 0402	0402
14	C85, C86, C87, C90, C98	5	10uF	GRM21BR70109KE15L	MuRata	CAP, CERAM, 10 uF, 6.3 V, +/-10%, X7R, 0805	0805
15	C92	1	4.7uF	GRM188R4M47K15L	MuRata	CAP, CERAM, 4.7 uF, 6.3 V, +/-5%, X7R, 0805	0805
16	C93	1	10uF	GRM188R4M100M15L	MuRata	CAP, CERAM, 10 uF, 25 V, +/-5%, COG/NPQ, 0805	0805
17	C96	1	1000pF	C100507R1H100M050B	TDK	CAP, CERAM, 1000 pF, 50 V, +/-20%, X5R, 0402	0402
18	C98, C100, C101, C102	4	910pF	GRM1555CE11J01D	MuRata	CAP, CERAM, 910 pF, 25 V, +/-5%, COG/NPQ, 0402	0402
19	C103, C106, C107	3	510pF	GRM1555CE11J01D	MuRata	CAP, CERAM, 510 pF, 25 V, +/-5%, COG/NPQ, 0402	0402
20	C104, C108, C111, C112	4	10uF	GRM1555C1H10J01D	MuRata	CAP, CERAM, 100 pF, 50 V, +/-5%, COG/NPQ, 0402	0402
21	C105, C109, C110, C113	4	1uF	GRM1555C1H10J01D	MuRata	CAP, CERAM, 10 pF, 50 V, +/-1%, COG/NPQ, 0402	0402
22	D2	1	Gold Wire	N420P40ARA	Paragonics	LED, Gold Wire, SMD	248 810m
23	D3	1	Blue LED	GRM1555R1E470M01D	MuRata	Blue LED	248 810m
24	D4, D7, D8, D9	5	Green	11ET-C106KGT	LED, Green, SMD	1.6x0.8x0.8mm	1.6x0.8x0.8mm
25	D10	1	Orange	11ET-C106KGT	LED, Orange, SMD	1.6x0.8x0.8mm	1.6x0.8x0.8mm
26	D6	1	Yellow	11ET-C106KGT	LED, Yellow, SMD	1.6x0.8x0.8mm	1.6x0.8x0.8mm
27	H1, H2	2	1000pF	GRM1555R1E470M01D	MuRata	High Power, 1000pF, 10V, +/-10%, X7R, 0603	0603
28	H3, H4	2	1000pF	GRM1555R1E470M01D	MuRata	Standard, 1000pF, 10V, +/-10%, X7R, 0603	0603
29	J1	1	1250556	1250556	Phoenix Contact	Terminal Block, 100mm, 2x1, 6A, 50V, TH	2.5x0.5x5.5mm
30	J2	1	1250556	1250556	Phoenix Contact	Terminal Block, 100mm, 2x1, 6A, 50V, TH	2.5x0.5x5.5mm
31	J6	1	MPS-04-770-D1-LV	Barnico	Receptacle, 5mm, 4x1, 0.08 with Tin, TH	Receptacle, 5mm, 4x1, TH	Receptacle, 5mm, 4x1, TH
32	J7	1	BSE-080-41-L-D-A	Barnico	Socket Assembly, 0.8mm, 80x2, Gold, SMT	Socket Assembly, 0.8mm, 80x2, SMT	Socket Assembly, 0.8mm, 80x2, SMT
33	L1, L2, L3, L4, L5, L6	6	2.2uH	TPMS021ALMAL2RM2TAA	TDK	Inductor, Film, 2.2 uH, 2.5 A, 0.084 ohm, AEC-Q200 Grade 0, SMD	2.5x0.8mm
34	L7	1	400uH	HELPS0202ERK47M01	Vishay Dale	Inductor, Shielded Drum Core, Powdered Iron, 470 uH, 17.5 A, 0.004 ohm, SMD	HELPS0202
35	L8	1	400uH	HELPS0202ERK47M01	Vishay Dale	Inductor, Shielded Drum Core, Powdered Iron, 470 uH, 17.5 A, 0.004 ohm, SMD	HELPS0202
36	Q1, Q4, Q6, Q5, Q7, Q8, Q9	8	80V	2N7002-F	Stalder Inc.	MOSFET, N-CH, 80V, 0.17A, SOT-23	SOT-23
37	Q2	1	30V	2N7002-F	Stalder Inc.	MOSFET, P-CH, 30V, 0.17A, SOT-23	SOT-23
38	R1, R2	2	10k	CRW04020000000000	Vishay Dale	RES, 10k, 0.1%, 0.063 W, 0402	0402
39	R3, R4, R5, R20	4	1k	CRW04020000000000	Vishay Dale	RES, 1k, 0.1%, 0.063 W, 0402	0402
40	R6, R7, R8, R9, R10, R12, R13, R14, R15, R16, R17, R18, R19, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R88, R89, R90, R91, R92, R93, R94, R95, R96, R97, R98, R99, R100, R101, R102, R103, R104, R105, R106, R107, R108, R109, R110, R111, R112, R113, R114, R115, R116, R117, R118, R119, R120, R121, R122, R123, R124, R125, R126, R127, R128, R129, R130, R131, R132, R133, R134, R135, R136, R137, R138, R139, R140, R141, R142, R143, R144, R145, R146, R147, R148, R149, R150, R151, R152, R153, R154, R155, R156, R157, R158, R159, R160, R161, R162, R163, R164, R165, R166, R167, R168, R169, R170, R171, R172, R173, R174, R175, R176, R177, R178, R179, R180, R181, R182, R183, R184, R185, R186, R187, R188, R189, 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