

Variant: 001  
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 TID #: TIDA-01374



### TIDA-01374 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB1	1		TIDA-01374	Any	Printed Circuit Board	
2	C1, C4, C14, C17	4	2.2uF	UMK316B7225KL-T	Taiyo Yuden	CAP, CERM, 2.2 µF, 50 V, +/- 10%, X7R, 1206	1206
3	C2, C7, C11, C15, C20, C24	6	4700pF	GRM188R71E472KA01D	MuRata	CAP, CERM, 4700 pF, 25 V, +/- 10%, X7R, 0603	0603
4	C3, C5, C9, C13, C16, C18, C22, C26	8	0.01uF	06031C103JAT2A	AVX	CAP, CERM, 0.01 µF, 100 V, +/- 5%, X7R, 0603	0603
5	C6, C8, C19, C21	4	0.01uF	GCM155R71H103KA55D	MuRata	CAP, CERM, 0.01 µF, 50 V, +/- 10%, COG/NPO, 0402	0402
6	C10, C23	2	0.15uF	C0805C154K5RACTU	Kemet	CAP, CERM, 0.15 µF, 50 V, +/- 10%, X7R, 0805	0805
7	C12	1	0.12uF	GRM188R61A124KA01D	MuRata	CAP, CERM, 0.12 µF, 10 V, +/- 10%, X5R, 0603	0603
8	D1, D2	2	40V	SSA24	Fairchild Semiconductor	Diode, Schottky, 40 V, 2 A, AEC-Q101, SMA	SMA
9	D3, D4, D5, D7, D8, D9, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22	18	Red	LR H9GP-HZKX-1-1-Z	OSRAM	LED, Red, SMD	3.85x3.85mm
10	D6	1	100V	BAS16J, 135	NXP Semiconductor	Diode, Switching, 100 V, 0.25 A, SOD-323F	SOD-323F
11	D10	1	16V	BZT52B16-HE3-08	Vishay-Semiconductor	Diode, Zener, 16 V, 410 mW, AEC-Q101, SOD-123	SOD-123
12	J1	1		IPL1-103-01-F-S-RA-K	Samtec	Header(Shrouded), 2.54mm, 3x1, Gold, R/A, TH	Header(Shrouded), 2.54mm, 3x1, R/A, TH
13	Q1, Q2, Q3, Q4, Q5, Q6	6	60V	NTD3055-150T4G	ON Semiconductor	MOSFET, N-CH, 60 V, 9 A, AEC-Q101, DPAK	DPAK
14	R1, R2, R6, R18, R19, R21	6	1.00	CRCW12061R00FKEA	Vishay-Dale	RES, 1.00, 1%, 0.25 W, 1206	1206
15	R3, R14, R15, R16, R26, R27	6	20.0k	CRCW060320K0FKEA	Vishay-Dale	RES, 20.0 k, 1%, 0.1 W, 0603	0603
16	R4	1	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0 k, 1%, 0.1 W, 0603	0603
17	R5, R20	2	8.06k	RT0603BRD078K06L	Yageo America	RES, 8.06 k, 0.1%, 0.1 W, 0603	0603
18	R7, R22	2	124k	CRCW0603124KFKEA	Vishay-Dale	RES, 124 k, 1%, 0.1 W, 0603	0603
19	R8, R23	2	182k	CRCW0603182KFKEA	Vishay-Dale	RES, 182 k, 1%, 0.1 W, 0603	0603
20	R9	1	75.0k	CRCW060375K0FKEA	Vishay-Dale	RES, 75.0 k, 1%, 0.1 W, 0603	0603
21	R10	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00 k, 1%, 0.1 W, 0603	0603
22	R11, R24	2	750	RT0603DRE07750RL	Yageo America	RES, 750, 0.5%, 0.1 W, 0603	0603
23	R13	1	28.0k	CRCW060328K0FKEA	Vishay-Dale	RES, 28.0 k, 1%, 0.1 W, 0603	0603
24	R17, R28	2	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
25	U1, U2	2		TPS92830QPWRQ1	Texas Instruments	3-CH High Current Linear LED Controller with Diagnostics and One-Fail-All-Fail Fault Bus, PW0028A	PW0028A
26	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
27	R12	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603

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