

TIDEP-01040 REV A Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB	1		TIDEP-01040	Any	Printed Circuit Board	
C5, C16, C21, C24	4	0.22uF	LMK063BJ224MP-F	Taiyo Yuden	CAP, CERM, 0.22 uF, 10 V, +/- 20%, X5R, 0201	0201
C6, C23, C44	3		GCM188D70J106ME36D	Murata	Chip Multilayer Ceramic Capacitors for Automotive	0603
C9, C10, C19, C20	4	2.2uF	GRT155C71A225KE13	MuRata	CAP, CERM, 2.2 uF, 10 V, +/- 10%, X7S, AEC-Q200 Grade 1, 0402	0402
C13, C15, C29	3	10uF	CL05A106MP5NUNC	Samsung Electro-Mechanics	CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0402	0402
C17	1	2.2uF	CL03A225MQ3CRNC	Samsung Electro-Mechanics	CAP, CERM, 2.2 uF, 6.3 V, +/- 20%, X5R, 0201	0201
C18, C22, C35	3	1uF	CL03A105MP3NSNC	Samsung Electro-Mechanics	CAP, CERM, 1 uF, 10 V, +/- 20%, X5R, 0201	0201
C25	1	0.047uF	GRM033R61C473KE84D	MuRata	CAP, CERM, 0.047 uF, 16 V, +/- 10%, X5R, 0201	0201
C27	1	4.7uF	GCJ21BR71C475KA01L	Murata	Multilayer Ceramic Capacitors MLCC - SMD/SMT 0805 4.7uF 10%, 16VDC, X7R 15%	0805
C32, C33	2	4.7pF	GJM1555C1H4R7BB01D	MuRata	CAP, CERM, 4.7 pF, 50 V, +/- 2%, C0G/NP0, 0402	0402
C34	1	0.1uF	GRM033C71A104KE14D	MuRata	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X7S, 0201	0201
C53	1	0.22uF	GCM155R71C224KE02D	MuRata	CAP, CERM, 0.22 uF, 16 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C68	1	47uF	GRM31CR60J476ME19L	MuRata	CAP, CERM, 47 uF, 6.3 V, +/- 20%, X5R, 1206	1206
C72, C128, C129	3	10uF	GRM188Z71A106MA73D	MuRata	CAP, CERM, 10 uF, 10 V, +/- 20%, X7R, 0603	0603
C73	1	0.47uF	GRM188R71C474KA88D	MuRata	CAP, CERM, 0.47 uF, 16 V, +/- 10%, X7R, 0603	0603
C74	1	470pF	GRM1555C1H471JA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
J3	1		M50-3610742	Harwin		HDR14
L6	1	0.1uH	LQM2MPZR10MJHL	Murata	100nH Shielded Multilayer Inductor 4A 19mOhm Max 0806 (2016 Metric)	0806 (2016)
L15	1	0.47uH	DFE201210U-R47M=P2	Murata	470nH Shielded Wirewound Inductor 3A 42mOhm Max 0805 (2012 Metric)	0805 (2012)
LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
Q3	1	100V	BSS123W-7-F	Diodes Inc.	MOSFET, N-CH, 100 V, 0.17 A, SOT-323	SOT-323
R1, R4, R20, R23, R44, R49, R75	7	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R3, R45, R46, R47, R48, R51	6	33.2	CRCW020133R2FNED	Vishay-Dale	RES, 33.2, 1%, 0.05 W, 0201	0201
R50	1	47.5k	AC0402FR-0747K5L	Yageo	Res Thick Film 0402 47.5K Ohm 1% 1/16W ±100ppm/°C Molded SMD Paper T/R	0402
R73, R74	2	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R175, R177, R244	3	100k	CRCW0402100KFKEDC	Vishay	100 kOhms ±1% 0.063W, 1/16W Chip Resistor 0402 (1005 Metric) Thick Film	0402
R180	1	18.0k	CRCW040218K0FKED	Vishay-Dale	RES, 18.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
U1	1		xWR6432WCSP	Texas Instruments	xWR6432WCSP	DSBGA112
U2	1		MX25R1635FZUIH0	Macronix International Co., Ltd.	ULTRA LOW POWER, 16M-BIT [x 1/x 2/x 4] CMOS MXSMIO (SERIAL MULTI I/O) FLASH MEMORY, SON-8	SON-8
U20	1		TPS6285020MDRLR	Texas Instruments	2.7-V to 6-V, 2-A Step-Down Converter in SOT583 Package	SOT583
Y1	1		FW4000044Q	Diodes	40MHz ±10ppm Crystal 8pF 50 Ohms 4-SMD, No Lead	4-SMD-2.0x1.6mm
C130, C131	0	22uF	GRM31CR70J226ME19K	Murata	Chip Multilayer Ceramic Capacitors for General Purpose, 1206, 22uF, X7R, 15%, 20%, 6.3V	1206

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
R152	0	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R173, R176	0		RC0201JR-070RL	Yageo	RES SMD 0 OHM JUMPER 1/20W 0201	0201 (0603 Metric)

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