TIDA-01281E1(001)_BOM.xls 001 12/8/2016 2:52:26 PM TIDA-01281

TIDA-01281 REV E1 Bill of Materials



Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		TIDA-01281	Any	Printed Circuit Board	
C1, C2, C3, C11,	6	1uF	GRM188R70J105KA01D	MuRata	CAP, CERM, 1 µF, 6.3 V, +/- 10%, X7R, 0603	0603
C12, C13						
C4, C5, C6, C7	4	0.01uF	06031C103JAT2A	AVX	CAP, CERM, 0.01 µF, 100 V, +/- 5%, X7R, 0603	0603
C8	1	1uF	GRM188R61H105KAALD	MuRata	CAP, CERM, 1 µF, 50 V, +/- 10%, X5R, 0603	0603
C9, C10	2	1000pF	06031C102KAT2A	AVX	CAP, CERM, 1000 pF, 100 V, +/- 10%, X7R, 0603	0603
C14, C28	2	100pF	06035A101JAT2A	AVX	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
C15, C16, C19, C20, C24, C25	6	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 μF, 25 V, +/- 5%, X7R, 0603	0603
C17, C18	2	15pF	GRM1885C2A150JA01D	MuRata	CAP, CERM, 15 pF, 100 V, +/- 5%, C0G/NP0, 0603	0603
C21, C23, C29, C30	4	10uF	GRM21BR61E106KA73L	MuRata	CAP, CERM, 10 μF, 25 V, +/- 10%, X5R, 0805	0805
C22	1	0.1uF	06035C104KAT2A	AVX	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603
C26, C27	2	4700pF	06031C472JAT2A	AVX	CAP, CERM, 4700 pF, 100 V, +/- 5%, X7R, 0603	0603
D1, D3	2	7V	CDSOT23-SM712	Bourns	Diode, TVS, Bi, 7 V, 400 W, SOT-23	SOT-23
D2, D4	2	40V	1N5819HW-7-F	Diodes Inc.	Diode, Schottky, 40 V, 1 A, SOD-123	SOD-123
D5	1	Rgb	SMLP36RGB2W3	Rohm	LED, Rgb, SMD	1.5x1mm
D6	1	30V	CMDSH2-3 TR	Central Semiconductor	Diode, Schottky, 30 V, 0.2 A, SOD-323	SOD-323
FID4, FID5, FID6	3		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
J1	1		TSW-128-09-G-S-RE	Samtec	Header, 100mil, 28x1, Gold, R/A, TH	28x1, R/A Header
J2, J4, J5	3		HTSW-103-07-G-S	Samtec	Header, 100mil, 3x1, Gold, TH	Header, 100mil, 3x1,
						TH
J3	1		TSW-107-07-G-D	Samtec	Header, 100mil, 7x2, Gold, TH	7x2 Header
L1	1	120 ohm	BLM18SG121TN1D	MuRata	Ferrite Bead, 120 ohm @ 100 MHz, 3 A, 0603	0603
R1, R4, R6, R8, R9, R10	6	0	RC0603JR-070RL	Yageo America	RES, 0, 5%, 0.1 W, 0603	0603
R2, R3, R5, R7, R11, R12, R13, R39, R40, R41	10	1.0k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.1 W, 0603	0603
R14, R16, R19, R20, R21, R22	6	4.70k	RC0603FR-074K7L	Yageo America	RES, 4.70 k, 1%, 0.1 W, 0603	0603
R15, R17, R23, R26, R28, R37	6	100	CRCW0603100RFKEA	Vishay-Dale	RES, 100, 1%, 0.1 W, 0603	0603
R18, R34, R38	3	10.0k	RC0603FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.1 W, 0603	0603
R24, R27	2	10.0	CRT0805-BY-10R0ELF	Bourns	RES, 10.0, 0.1%, 0.1 W, 0805	0805
R25, R29, R30, R31	4	60.4	CRCW080560R4FKEA	Vishay-Dale	RES, 60.4, 1%, 0.125 W, 0805	0805
R32, R33, R35, R36	4	4.7k	CRCW06034K70JNEA	Vishay-Dale	RES, 4.7 k, 5%, 0.1 W, 0603	0603
RV1, RV2	2	200V	MOV-10D201K	Bourns	Metal Oxide Varistor, TH	12.5mm Diameter
T1	1	475uH	760390013	Wurth Elektronik	Transformer, 475 uH, SMT	10.05x4.19x6.73 mm
TP1, TP2	2	Blue	5117	Keystone	Test Point, Miniature, Blue, TH	Blue Miniature Testpoint
U1	1		TMS320F28035PAGTR	Texas Instruments	Piccolo(TM) Microcontrollers, PAG0064A	PAG0064A
U2	1		ISO1050DUB	Texas Instruments	Isolated CAN Transceiver, -55 to 105 degC, 8-pin SOP (DUB), Green	DUB0008A
	'			. Oxao monamonto	(RoHS & no Sb/Br)	2 3 2 3 3 3 3 3
U3	1		ISO1541DR	Texas Instruments	Low-Power Bidirectional I2C Isolators, D0008A	D0008A
U4	1		SN6505BDBVR	Texas Instruments	LOW-NOISE 1A TRANSFORMER DRIVERS FOR ISOLATED POWER SUPPLIES. DBV0006A	DBV0006A
U5, U7	2		TBU-CA065-200-WH	Bourns	TBU-CA series TBU High-Speed Protectors, TBU-CA	SMD 6.5x.85x4mm
U6	1		ISO3082DW	Texas Instruments	Isolated RS-485 Transceiver, 0.2 Mbps, 5 V, Half Duplex, -40 to 85 degC, e1 of 6-pin SOIC (DW), Green (RoHS & no Sb/Br)	DW0016A

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
U11	1		TLV1117-33CDRJR	Texas Instruments	LDO with 4.7 to 15 V Input and 3.3 V Output, 0 to 125 degC, 8-Pin SON	DRJ0008A
					(DRJ), Green (RoHS & no Sb/Br)	
Y1	1		7B-20.000MEEQ-T	TXC Corporation	Crystal, 20.000MHz, 10pF, SMD	5x0.9x3.2mm
FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

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