

Bill of Materials

TI DESIGNS

TIDA-03028

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part(DigiKey)
1	1	PCB		Printed Circuit Board	Any		
2	10	C1	10 µF	CAP, CERM, 10µF, 16V, +/-20%, X5R, 0805	AVX	0805YD106MAT2A	1582704
3	5	C5, C6, C7, C8, C104, C328	0.1 µF	CAP, CERM, 0.1µF, 6.3V, +/-10%, X5R, 0402	TDK	C1005X5R0J104K	445-1266-1-ND
4	2	C17, C105	1 µF	CAP, CERM, 1 µF, 6.3 V, +/- 20%, X5R, 0402	TDK	C1005X5R0J105M	445-1415-1-ND
5		C23	1 µF	CAP, CERM, 1 µF, 16 V, +/- 10%, X5R, 0805	AVX	0805YD105KAT2A	478-1411-1-ND
6	2	C21, C321	2.2 µF	CAP, CERM, 2.2µF, 16V, +/-10%, X5R, 0805	AVX	0805YD225KAT2A	478-2580-1-ND
7	4	C9, C10, C15, C16, C100, C101, C102, C103	4.7 µF	CAP, CERM, 4.7 µF, 10 V, +/- 10%, X5R, 0402	TDK	C1005X5R1A475K050BC	445-13820-1-ND
8		C22	22 µF	CAP ALUM 22µF 10V 20% SMD	Panasonic - ECG	EMVE100ADA220ME55G	PCE3869CT-ND
9	4	C25, C31, C32, C34	0.1 µF	CAP, CERM, 0.1µF, 16V, +/-5%, X7R, 0603	AVX	0603YC104JAT2A	478-3726-1-ND
10	1	C24	0.01 µF	CAP, CERM, 0.01µF, 50V, +/-10%, X7R, 0603	TDK	C1608X7R1H103K	445-1311-1-ND
11	2	C26, C27	220 pF	CAP, CERM, 220pF, 50V, +/-1%, COG/NP0, 0603	AVX	06035A221FAT2A	478-3719-1-ND
12	2	C28, C29	30 pF	CAP, CERM, 30pF, 100V, +/-5%, COG/NP0, 0603	MuRata	GRM1885C2A300JA01D	490-1338-1-ND
13	1	C30	2200 pF	CAP, CERM, 2200pF, 50V, +/-10%, X7R, 0603	Kemet	C0603X222K5RACTU	399-5341-1-ND
14	1	C33	.47 µF	CAP, CERM, 0.47µF, 10V, +/-10%, X7R, 0603	MuRata	GRM188R71A474KA61D	GRM188R71A474KA61D-ND
15	1	C106	.022 µF	CAP, CERM, 0.022µF, 16V, +/-10%, X5R, 0402	MuRata	GRM155R61C223KA01D	GRM155R61C223KA01D-ND
16	4	C107, C108, C109, C110	4.7 µF	CAP, CERM, 4.7µF, 6.3V, +/-20%, X5R, 0402	TDK	C1005X5R0J475M050BC	445-7395-1-ND
17	3	D1, D100, D101	LED	LED, Green, SMD	Lumex	SML-LX0603GW-TR	67-1549-1-ND
18	1	D2	Diode, Zener, 7.5 V	Diode, Zener, 7.5 V, 550 mW, SMB	ON Semiconductor	1SMB5922BT3G	863-1SMB5922BT3G
19	1	D3	LED	LED, Green, SMD	Lumex	SSF-LXH305GD-TR	67-1375-1-ND
20	1	FB1	Ferrite Bead, 60 ohm @ 100 MHz	Ferrite Bead, 60 ohm @ 100 MHz, 0.8 A, 0603	Taiyo Yuden	BK1608HS600-T	587-1873-2-ND
21	6	H1, H2, H3, H4, H4, H5, H6	Machine Screw	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips	B&F Fastener Supply	NY PMS 440 0025 PH	H542-ND
22	6	H7, H8, H9, H10, H11, H12	Standoff	Standoff, Hex, 0.5"L #4-40 Nylon	Keystone	1902C	1902CK-ND
23	2	J1, J3	Connector	Disconnect Terminal, 5.08mm, 2x1, Tin, TH	Keystone	1212-ST	1212-STK-ND
24	1	J8	Header	Header (shrouded), 100mil, 5x2, Gold, TH	TE Connectivity	5103308-1	A33159-ND
25	3	J9, J20, J21	Header	Header, 100mil, 2x1, Tin, TH	TE Connectivity	5-146278-2	5-146278-2-ND
26	2	J17, J102	Connector	Connector, BNC Edge Mount, SMD	Samtec	BNC7T-J-P-GN-ST-EM1D	BNC7T-J-P-GN-ST-EM1D
27	6	J18, J19, J100, J101, J104, J105	Connector	Connector, TH, End launch SMA 50 ohm	Emerson Network Power	142-0771-821	J807-ND
28	1	J31	Connector	Connector, Receptacle, Mini-USB Type B, R/A, Top Mount	TE Connectivity	1734035-2	A31727CT-ND
29	1	J33	Header	Header, 100mil, 2x2, Gold, TH	Samtec	TSW-102-07-G-D	SAM1028-02-ND

IMPORTANT NOTICE FOR TI REFERENCE DESIGNS

Texas Instruments Incorporated ("TI") reference designs are solely intended to assist designers ("Designer(s)") who are developing systems that incorporate TI products. TI has not conducted any testing other than that specifically described in the published documentation for a particular reference design.

TI's provision of reference designs and any other technical, applications or design advice, quality characterization, reliability data or other information or services does not expand or otherwise alter TI's applicable published warranties or warranty disclaimers for TI products, and no additional obligations or liabilities arise from TI providing such reference designs or other items.

TI reserves the right to make corrections, enhancements, improvements and other changes to its reference designs and other items.

Designer understands and agrees that Designer remains responsible for using its independent analysis, evaluation and judgment in designing Designer's systems and products, and has full and exclusive responsibility to assure the safety of its products and compliance of its products (and of all TI products used in or for such Designer's products) with all applicable regulations, laws and other applicable requirements. Designer represents that, with respect to its applications, it has all the necessary expertise to create and implement safeguards that (1) anticipate dangerous consequences of failures, (2) monitor failures and their consequences, and (3) lessen the likelihood of failures that might cause harm and take appropriate actions. Designer agrees that prior to using or distributing any systems that include TI products, Designer will thoroughly test such systems and the functionality of such TI products as used in such systems. Designer may not use any TI products in life-critical medical equipment unless authorized officers of the parties have executed a special contract specifically governing such use. Life-critical medical equipment is medical equipment where failure of such equipment would cause serious bodily injury or death (e.g., life support, pacemakers, defibrillators, heart pumps, neurostimulators, and implantables). Such equipment includes, without limitation, all medical devices identified by the U.S. Food and Drug Administration as Class III devices and equivalent classifications outside the U.S.

Designers are authorized to use, copy and modify any individual TI reference design only in connection with the development of end products that include the TI product(s) identified in that reference design. HOWEVER, NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER TI INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT OF TI OR ANY THIRD PARTY IS GRANTED HEREIN, including but not limited to any patent right, copyright, mask work right, or other intellectual property right relating to any combination, machine, or process in which TI products or services are used. Information published by TI regarding third-party products or services does not constitute a license to use such products or services, or a warranty or endorsement thereof. Use of the reference design or other items described above may require a license from a third party under the patents or other intellectual property of the third party, or a license from TI under the patents or other intellectual property of TI.

TI REFERENCE DESIGNS AND OTHER ITEMS DESCRIBED ABOVE ARE PROVIDED "AS IS" AND WITH ALL FAULTS. TI DISCLAIMS ALL OTHER WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, REGARDING THE REFERENCE DESIGNS OR USE OF THE REFERENCE DESIGNS, INCLUDING BUT NOT LIMITED TO ACCURACY OR COMPLETENESS, TITLE, ANY EPIDEMIC FAILURE WARRANTY AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

TI SHALL NOT BE LIABLE FOR AND SHALL NOT DEFEND OR INDEMNIFY DESIGNERS AGAINST ANY CLAIM, INCLUDING BUT NOT LIMITED TO ANY INFRINGEMENT CLAIM THAT RELATES TO OR IS BASED ON ANY COMBINATION OF PRODUCTS AS DESCRIBED IN A TI REFERENCE DESIGN OR OTHERWISE. IN NO EVENT SHALL TI BE LIABLE FOR ANY ACTUAL, DIRECT, SPECIAL, COLLATERAL, INDIRECT, PUNITIVE, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES IN CONNECTION WITH OR ARISING OUT OF THE REFERENCE DESIGNS OR USE OF THE REFERENCE DESIGNS, AND REGARDLESS OF WHETHER TI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

TI's standard terms of sale for semiconductor products (<http://www.ti.com/sc/docs/stdterms.htm>) apply to the sale of packaged integrated circuit products. Additional terms may apply to the use or sale of other types of TI products and services.

Designer will fully indemnify TI and its representatives against any damages, costs, losses, and/or liabilities arising out of Designer's non-compliance with the terms and provisions of this Notice.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2016, Texas Instruments Incorporated