

Bill of Materials

TI DESIGNS

TIDM-INDUCTIVELINEAR

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
1	1	PCB1		Printed Circuit Board	Any		-		
2	1	C1	150pF	CAP, CERM, 150 pF, 100 V, +/- 5%, COG/NPO, 0603	MuRata	GRM1885C2A151JA01D		0603	
3	1	C2	2.2uF	CAP, CERM, 2.2uF, 10V, +/-10%,	Kemet	C0603C225K8PACTU		0603	
4	1	C3	0.01uF	CAP, CERM, 0.01 µF, 16 V, +/- 10%, X7R, 0402	TDK	C1005X7R1C103K		0402	
5	1	C4	0.1uF	CAP CER 0.1UF 16V 5% X7R 0402	Murata Electronics Nor	GRM155R71C104JA88D		0402	
6	1	C5	0.01uF	CAP, CERM, 0.01uF, 25V, +/-5%, COG/NPO, 0603	TDK	C1608COG1E103J	-	0603	
7	1	C6	1uF	CAP, CERM, 1uF, 10V, +/-10%,	MuRata	GRM155R61A105KE15D		0402	
8	1	CES1	0.47uF	CAP, CERM, 0.47 µF, 10 V, +/- 10%, X5R, 0603	MuRata	GRM188R61A474KA61D		0603	
9	1	ES1		Receptacle, 100mil, 8x2, Gold, TH	Samtec	SSQ-108-02-G-D		SAMTEC_SSQ-108-02-G-D	
10	1	GND1	SMT	Test Point, Compact, SMT	Keystone	5016		0.015" Silver Plated	
11	2	J1, J2		Connector, Receptacle, 100mil,	Samtec	SSW-110-23-F-D		CONN_SSW-110-23-F-D	
12	1	J8		Header, 2.54 mm, 2x1, Tin, TH	Samtec	TSW-102-07-T-S		Samtec_TSW-102-07-T-S	
13	2	R1, R2	0	RES, 0, 5%, 0.125 W, 0805	Panasonic	ERJ-6GEY0R00V		0805_HV	
14	2	R12, R13	4.70k	RES, 4.70k ohm, 1%, 0.1W, 0603	Yageo America	RC0603FR-074K7L		0603	
15	5	R16, R17, R18, R19, R20	0	RES, 0 ohm, 5%, 0.1W, 0603	Vishay-Dale	CRCW06030000Z0EA		0603	
16	2	TP1, TP2	Red	Test Point, Miniature, Red, TH	Keystone	5000		0.04" Hole Diameter	
17	1	U1		Multi-Channel 12/28-Bit	Texas Instruments	LDC1612DNT		DNT0012B	
18	1	U2		4:1 High-Speed USB MUX	fairchild	FSUSB74	-	LCCS40P210X290X55-16N	
19	1	Y2		OSC, 40 MHz, 3.3 V, SMD	CTS Electrocomponent	625L3C040M00000		OSC_CTS_625	

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