

Filename: ProA52F.tmp
 Variant: 001
 Generated: 3/30/2017 3:50:59 PM
 TID #: 01053



TIDA-01053 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	C2, C4, C23, C27	4	5pF	GRM1885C2A5R0CA01D	MuRata	CAP, CERM, 5 pF, 100 V, +/- 5%, COG/NP0, 0603	0603
2	C7, C10	2	10uF	UMK325AB7106KM-T	Taiyo Yuden	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, 1210	1210
3	C8, C11	2	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1 uF, 100 V, +/- 10%, X7R, 0603	0603
4	C9, C12	2	0.01uF	GRM188R71E103KA01D	MuRata	CAP, CERM, 0.01 uF, 25 V, +/- 10%, X7R, 0603	0603
5	C33, C38	2	0.1uF	C0603C104J3RACTU	Kemet	CAP, CERM, 0.1 uF, 25 V, +/- 5%, X7R, 0603	0603
6	C34, C35	2	1000pF	C0603C102J5GAC	Kemet	CAP, CERM, 1000 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
7	C36, C37, C39	3	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
8	C40	1	10uF	GRM21BR71A106KE51L	MuRata	CAP, CERM, 10uF, 10V, +/-10%, X7R, 0805	0805
9	C41	1	1uF	GRM188R71A105KA61D	MuRata	CAP, CERM, 1uF, 10V, +/-10%, X7R, 0603	0603
10	C42	1	47uF	GRM32ER71A476KE15L	MuRata	CAP, CERM, 47 uF, 10 V, +/- 10%, X7R, 1210	1210
11	Cft1, Cft2, Cft3	3	1000pF	C1608C0G2A102J080AA	TDK	CAP, CERM, 1000 pF, 100 V, +/- 5%, COG/NP0, 0603	0603
12	FDA1	1		THS4551IRGTR	Texas Instruments	Low Power, Precision, 160MHz, Fully Differential Amplifier, RGT0016A	RGT0016A
13	J1, J2, J3, J4, J12, J13, J14, J15	8		CONSUMA001-SMD-G	Linx Technologies	Jack, SMA, PCB, Gold, SMT	SMA Jack
14	J5, J6, J7	3		6095	Keystone	Standard Banana Jack, Uninsulated	Keystone_6095
15	L1, L2	2	31 ohm	MI1206K310R-10	Laird-Signal Integrity Products	Ferrite Bead, 31 ohm @ 100 MHz, 1.5 A, 1206	1206
16	R1, R7, R21, R24	4	52.3	RC0603FR-0752R3L	Yageo America	RES, 52.3, 1%, 0.1 W, 0603	0603
17	R19, R20, R32, R33, R36, R37, R38	7	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.063 W, 0402	0402
18	R39, R41, RF1, RF2, RF3, RF4, RI1, RI2, RI3, RI4	10	1.00k	RT0603BRB071KL	Yageo America	RES, 1.00 k, 0.1%, 0.1 W, 0603	0603
19	R42	1	499	RG1608P-4990-B-T5	Susumu Co Ltd	RES, 499, 0.1%, 0.1 W, 0603	0603
20	R43	1	20.0k	RG1608P-203-B-T5	Susumu Co Ltd	RES, 20.0 k, 0.1%, 0.1 W, 0603	0603
21	R44, R45	2	49.9k	RG1608P-4992-B-T5	Susumu Co Ltd	RES, 49.9 k, 0.1%, 0.1 W, 0603	0603
22	R46, R47	2	0.22	ERJ-3RQFR22V	Panasonic	RES, 0.22 ohm, 1%, 0.1W, 0603	0603
23	Rft1, Rft2, Rft3, Rft4	4	20.0	RT0603BRD0720RL	Yageo America	RES, 20.0, 0.1%, 0.1 W, 0603	0603
24	TP28, TP29, TP30	3		5015	Keystone	Test Point, Miniature, SMT	Testpoint_Keystone_Minature
25	U1, U2	2		OPA625IDBVR	Texas Instruments	High Bandwidth, High Precision, Low Noise and Distortion Amplifier with Ultra-Fast Transition time Low Power mode, DBV0006A (SOT-6)	DBV0006A
26	U3	1		REF6050IDGKR	Texas Instruments	High-Precision Voltage Reference with Integrated High-Bandwidth Buffer, DGK0008A (VSSOP-8)	DGK0008A
27	U4	1		OPA376AIDBVR	Texas Instruments	Precision, Low Noise, Low Iq Operational Amplifier, 2.2 to 5.5 V, -40 to 125 degC, 5-pin SOT23 (DBV0005A), Green (RoHS & no Sb/Br)	DBV0005A
28	C1, C32	0	130pF	GRM1885C2A131JA01D	MuRata	CAP, CERM, 130 pF, 100 V, +/- 5%, COG/NP0, 0603	0603
29	C6, C24, C25, C29, C30	0	1000pF	C1608C0G2A102J080AA	TDK	CAP, CERM, 1000 pF, 100 V, +/- 5%, COG/NP0, 0603	0603
30	C22	0	68pF	GRM1885C2A680JA01D	MuRata	CAP, CERM, 68 pF, 100 V, +/- 5%, COG/NP0, 0603	0603
31	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
32	R4, R10	0	124	RC0603FR-07124RL	Yageo America	RES, 124, 1%, 0.1 W, 0603	0603
33	R27	0	249	CRCW0603249RFKEA	Vishay-Dale	RES, 249, 1%, 0.1 W, 0603	0603

IMPORTANT NOTICE FOR TI DESIGN INFORMATION AND RESOURCES

Texas Instruments Incorporated ("TI") technical, application or other design advice, services or information, including, but not limited to, reference designs and materials relating to evaluation modules, (collectively, "TI Resources") are intended to assist designers who are developing applications that incorporate TI products; by downloading, accessing or using any particular TI Resource in any way, you (individually or, if you are acting on behalf of a company, your company) agree to use it solely for this purpose and subject to the terms of this Notice.

TI's provision of TI Resources 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 TI Resources. TI reserves the right to make corrections, enhancements, improvements and other changes to its TI Resources.

You understand and agree that you remain responsible for using your independent analysis, evaluation and judgment in designing your applications and that you have full and exclusive responsibility to assure the safety of your applications and compliance of your applications (and of all TI products used in or for your applications) with all applicable regulations, laws and other applicable requirements. You represent that, with respect to your applications, you have 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. You agree that prior to using or distributing any applications that include TI products, you will thoroughly test such applications and the functionality of such TI products as used in such applications. TI has not conducted any testing other than that specifically described in the published documentation for a particular TI Resource.

You are authorized to use, copy and modify any individual TI Resource only in connection with the development of applications that include the TI product(s) identified in such TI Resource. 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 regarding or referencing third-party products or services does not constitute a license to use such products or services, or a warranty or endorsement thereof. Use of TI Resources 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 RESOURCES ARE PROVIDED "AS IS" AND WITH ALL FAULTS. TI DISCLAIMS ALL OTHER WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, REGARDING TI RESOURCES OR USE THEREOF, 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 YOU AGAINST ANY CLAIM, INCLUDING BUT NOT LIMITED TO ANY INFRINGEMENT CLAIM THAT RELATES TO OR IS BASED ON ANY COMBINATION OF PRODUCTS EVEN IF DESCRIBED IN TI RESOURCES 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 TI RESOURCES OR USE THEREOF, AND REGARDLESS OF WHETHER TI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

You agree to fully indemnify TI and its representatives against any damages, costs, losses, and/or liabilities arising out of your non-compliance with the terms and provisions of this Notice.

This Notice applies to TI Resources. Additional terms apply to the use and purchase of certain types of materials, TI products and services. These include; without limitation, TI's standard terms for semiconductor products (<http://www.ti.com/sc/docs/stdterms.htm>), [evaluation modules](#), and [samples](http://www.ti.com/sc/docs/sampterm.htm) (<http://www.ti.com/sc/docs/sampterm.htm>).

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2017, Texas Instruments Incorporated