

Bill Of Materials November 13,2017 10:19:46

Item	Quantity	Reference	Part	Footprint	Manufacturer	Manufacture Part Number	Description
		C1,C5,C7,C9,C10,C12,C14					
1	10	.C16,C18,C20	100nF	c0201	Murata	GRM033R61A104KE15D	CAP CER 0.1UF 10V X5R 0201
2	6	C2,C3,C8,C11,C13,C15	470nF	c0201	Murata	GRM033R60J474KE90D	CAP CER 0.47UF 6.3V X5R 0201
3	4	C4,C6,C17,C19	220nF	c0201	Murata	GRM033R60G224ME15D	CAP CER 0.22UF 4V X5R 0201
4	9	C21,C22,C23,C31,C32,C3	1uF	c0402	Murata	GRM155R60J105ME19D	CAP CER 1UF 6.3V X5R 0402
5	2	C24,C25	100nF	c0402	Murata	GRM155R61A104KA01D	CAP CER 0.1UF 10V X5R 0402
6	5	C26,C45,C46,C47,C48	10nF	c0402	Murata	GRM155R71C103KA01D	CAP CER 10000PF 16V X7R 0402
7	1	C27	0.22uF	c0402	Murata	GRM152R61A224KE19D	CAP CER 0.22UF 10V X5R 0402
8	2	C28,C29	330pF	c0402	Murata	GRM1555C1E331JA01D	CAP CER 330PF 25V C0G/NPO 0402
9	5	C30,C43,C44,C49,C50	10uF	c0603	Murata	GRM188R61E106MA73D	CAP CER 10UF 25V X5R 0603
10	2	C37,C38	0.1uF	c0402	Murata	GRM155R61A104KA01D	CAP CER 0.1UF 10V X5R 0402
11	1	C39	0.01uF	c0402	Murata	GRM155R71C103KA01D	CAP CER 10000PF 16V X7R 0402
12	1	C40	22uF	c1206	Murata	GRT31CR61E226ME01L	CAP CER 22UF 25V X5R 1206
13	2	C41,C42	10uF	c1206	Murata	GRM319R61E106KA12D	CAP CER 10UF 25V X5R 1206
14	1	C51	1uF 25V	c0603	Murata	GRM185R61E105KA12D	CAP CER 1UF 25V X5R 0603
15	1	D1	SCHOTTKY	DO-214AA	NXP	PMEG3050EP,115	DIODE SCHOTTKY 30V 5A SOD128
16	1	D2	LED Green	805	Lumex	LTST-C170KGKT	LED GREEN CLEAR 0805 SMD
17	1	D3	TPD1E10B06	DPY0002AA	Texas Instruments	TPD1E10B06DPYR	Schottky
18	1	D4	LED Green 0805	805	Lumex	LTST-C170KGKT	LED GREEN CLEAR 0805 SMD
19	2	FB1,FB2	26 @ 100MHZ	603	Murata	BLM18SG260TN1D	ERRITE BEAD 26 OHM 0603 1LN
20	7	JMP1,JMP2,JMP3,JMP4, JMP5, JMP6,JMP7	HDR3X2 .1X.1	HDR_THVT_2x3_100_M	Harwin	M20-9980345	DIL VERTICAL PC TAIL PIN HEADER
21	1	JMP8	Header 5x2	HDR_THVT_2x5_100	AMP	67997-410HLF	CONN HEADER 10POS .100 R/A 15AU
22	4	J1,J2,J3,J4	HDR3X1 M .1	HDR_THVT_1x3_100_M	3M	961103-6404-AR	CONN HEADER 10POS DL R/A GOLD
23	1	J5	HDR3X2 .1X.1	HDR_THVT_2x3_100_M	Harwin	M20-9980345	DIL VERTICAL PC TAIL PIN HEADER
24	1	J6	HDR3X2 .1X.1	HDR_THVT_2x3_100_M	Harwin	M20-9980345	DIL VERTICAL PC TAIL PIN HEADER
25	1	J7	Header 5x2 Shroud RA thru-hole	HDR_THRT_2X5_100	3M	30310-5002HB	CONN HEADER 10POS .100 STR TIN
26	1	J8	Header 5x2	HDR_THRT_2X5_100	3M	30310-5002HB	CONN HEADER 10POS .100 STR TIN
27	1	J9	Header 5x2	HDR_THRT_2X5_100	3M	30310-5002HB	CONN HEADER 10POS .100 STR TIN
28	1	J10	Header 5x2	HDR_THRT_2X5_100	3M	30310-5002HB	CONN HEADER 10POS .100 STR TIN
29	1	P1	JAE DX07S024JJ2	C_SMRT_DX07S024JJ2	JAE	DX07S024JJ2R1300	CONN RCPT USB3.1 TYPEC BRD EDGE
30	1	P2	Receptacle	USB3_TYPEA	AMP	GSB4111312HR	USB3.1 Type-A Connector
31	1	P3	Receptacle	CON_DP_SD-47272-001	Molex Inc	472720001	CONN RCPT 20POS UDI R/A SMD

32	0 R1	10k DNI	r0402	Panasonic Electronic Components	ERJ-2GEJ103X	RES SMD 10K OHM 5% 1/10W 0402
33	11 3,R44,R66,R70,R85	0	r0402	Panasonic Electronic Components	ERJ-2GE0R00X	RES SMD 0 OHM JUMPER 1/10W 0402
34	0 R46,R86	0 DNI	r0402	Panasonic Electronic Components	ERJ-2GE0R00X	RES SMD 0 OHM JUMPER 1/10W 0402
35	0 R4,R14,R52	100k DNI	r0402	Panasonic Electronic Components	ERJ-2GEJ104X	RES SMD 100K OHM 5% 1/10W 0402
36	7 ,R51	1M	r0402	Panasonic Electronic Components	ERJ-2GEJ105X	RES SMD 1M OHM 5% 1/10W 0402
37	1 R10	5M	r0402	Ohmite	HVC0402T5004JET	RES SMD 5M OHM 5% 1/20W 0402
38	0 R12,R13	1M DNI	r0402	Panasonic Electronic Components	ERJ-2GEJ105X	RES SMD 1M OHM 5% 1/10W 0402
39	15 R61,R62,R63,R64	1k	r0402	Panasonic Electronic Components	ERJ-2GEJ102X	RES SMD 1K OHM 5% 1/10W 0402
40	7 R21,R23,R26,R27,R31,R32,R36	20K	r0402	Panasonic Electronic Components	ERJ-2RKF2002X	RES SMD 20K OHM 1% 1/10W 0402
41	2 R37,R38	0	r0201	Panasonic Electronic Components	ERJ-1GN0R00C	RES SMD 0 OHM JUMPER 1/20W 0201
42	1 R39	15k 0.1%	r0402	Panasonic Electronic Components	ERA-2AEB153X	RES SMD 15K OHM 0.1% 1/16W 0402
43	2 R40,R42	0	r0402	Panasonic Electronic Components	ERJ-2GE0R00X	RES SMD 0 OHM JUMPER 1/10W 0402
44	3 R53,R60,R87	100k	r0402	Panasonic Electronic Components	ERJ-2GEJ104X	RES SMD 100K OHM 5% 1/10W 0402
45	1 R57	10k	r0402	Panasonic Electronic Components	ERJ-2GEJ103X	RES SMD 10K OHM 5% 1/10W 0402
46	7 R58,R59,R67,R68,R72,R73,R74	3.3k	r0402	Panasonic Electronic Components	ERJ-2GEJ332X	RES SMD 3.3K OHM 5% 1/10W 0402
47	0 R71	3.3k DNI	r0402	Panasonic Electronic Components	ERJ-2GEJ332X	RES SMD 3.3K OHM 5% 1/10W 0402
48	2 R75,R76	0	r1206	Panasonic Electronic Components	ERJ-8GEY0R00V	RES SMD 0 OHM JUMPER 1/4W 1206
49	2 R77,R78	330	r0402	Panasonic Electronic Components	ERJ-2GEJ331X	RES SMD 330 OHM 5% 1/10W 0402
50	0 R79,R82	0 DNI	r0805	Panasonic Electronic Components	ERJ-6GEY0R00V	RES SMD 0 OHM JUMPER 1/8W 0805
51	1 R80	3.9K	r0402	Panasonic Electronic Components	ERA-2AEB392X	RES SMD 3.9K OHM 0.1% 1/16W 0402
52	1 R81	1.2K	r0402	Panasonic Electronic Components	ERA-2AEB122X	RES SMD 1.2K OHM 0.1% 1/16W 0402
53	2 R83,R84	2M	r0402	Panasonic Electronic Components	ERJ-2GEJ205X	RES SMD 2M OHM 5% 1/10W 0402

54	4	SCRW1,SCRW2,SCRW3,S CRW4	NY PMS 440 005 PH	screw	B&F Fastener	NY PMS 440 0050 PH	40x.5 inch nylon
55	8	SHNT1,SHNT2,SHNT3,SH NT4,SHNT5,SHNT6,SHNT 7,SHNT8	QPC02SXGN-RC	0.1	Sullins Connector Solutions	QPC02SXGN-RC	CONN JUMPER SHORTING .100" GOLD
56	4	STDOFF1,STDOFF2,STDO FF3,STDOFF4	1902E	Standoff	Keystone	1902E	1 inch nylon
57	1	SW1	4-POS 50-MIL SMT	sw_smt_dip_4pos_8	C&K(ITT-CANNON)	TDA04H0SB1R	SWITCH SLIDE DIP SPST 25MA 24V
58	1	U1	TUSB1064	RNQ0040A	Texas Instruments	TUSB1064RNQ	
59	4	U2,U3,U4,U5	TPD4E05U06	DQA	Texas Instruments	TPD4E05U06DQAR	TVS DIODE 5.5VWM 14VC 10SON
60	1	U6	TPS65986	ZQZ_BGA_96	Texas Instruments	TPS65986ABZQZR	IC PD CTLR USB TYPE-C 96BGA
61	1	U7	W25Q80	SOIC_8_197x157_50	WINBOND	W25Q80DVSNIG	IC FLASH 8MBIT 104MHZ 8SOIC
62	1	U8	TPS7A4533	DCQ_PDSO_6	Texas Instruments	TPS7A4533DCQR	IC REG LINEAR 3.3V 1.5A SOT223-6
63	1	U9	TPS7A4501	DCQ_PDSO_6	Texas Instruments	TPS7A4501DCQT	IC REG LINEAR ADJ SOT223-6

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 © 2018, Texas Instruments Incorporated