

TMD5171RGZEVMTNT028

Item	Quantity	Reference	Part	PCB Footprint	Manufacturer	Part Number	Pkg	Click to Order	Description
1	5	C4,C5,C6,C7,C52	1 uF	603	Taiyo Yuden	LMK107B7105KA-T	603	<a href="#">587-1242-1-ND</a>	CAP CER 1UF 10V 10% X7R 0603
2	12	C9,C10,C17,C18,C19,C21,C23,C29,C40,C46,C59,C60	0.1uF	402	Yageo	CC0402RXSR6BB104	402	<a href="#">311-1336-1-ND</a>	CAP CERAMIC .1UF 10V XSR 0402
3	5	C8,C20,C35,C36,C57	10uF	805	TDK	C2012X5R1A106K125AB	805	<a href="#">445-7660-1-ND</a>	CAP CER 10UF 10V 10% XSR 0805
4	1	C31	10uF	402	TDK	C2012X5R1C106K085AC	805	<a href="#">445-7644-1-ND</a>	CAP CER 10UF 16V 10% XSR 0805
5	5	C22,C37,C41,C42,C47	0.01uF	805	Murata	GRM155R71H103KA88D	402	<a href="#">490-4516-1-ND</a>	CAP CER 10000PF 50V 10% X7R 0402
6	0	C26 - DNI	DNI - 200nF	402	Taiyo Yuden	LMK105BJ224KV-F	402	<a href="#">587-1228-2-ND</a>	CAP CER 0.22UF 10V 10% XSR 0402
7	1	C27	18pF	402	AVX	04025A180JAT2A	402	<a href="#">478-1073-1-ND</a>	CAP CER 18PF 5% 50V NPO 0402
8	1	C28	220pF	402	Taiyo Yuden	UMK105B7221KV-F	402	<a href="#">587-1218-1-ND</a>	CAP CER 220PF 50V 10% X7R 0402
9	1	C30	120uF	7343	Kemet	T491D227K016AT	7343	<a href="#">399-10429-1-ND</a>	CAP TANT 220UF 16V 10% 2917
10	1	C34	3.3 nF	402	Samsung	CL05B332K85NNNC	402	<a href="#">1276-1552-1-ND</a>	CAP CER 3300PF 50V 10% X7R 0402
11	1	C32	22uF	805	Murata	GRM21BR60J226ME39L	805	<a href="#">490-1719-2-ND</a>	CAP CER 22UF 6.3V 20% XSR 0805
12	2	C39,C58	2.2uF	805	Taiyo Yuden	EMK212BJ225KG-T	805	<a href="#">587-1293-2-ND</a>	CAP CER 2.2UF 16V 10% XSR 0805
13	0	C38 - DNI	1 nF - DNI	402	Murata	GRM155R71H102KA01D	402	<a href="#">490-1303-2-ND</a>	CAP CER 1000PF 50V X7R 0402
14	2	C45,C49	22pF	402	Murata	GRM1555C1H220JA01D	402	<a href="#">490-5868-1-ND</a>	CAP CER 22PF 50V 5% NPO 0402
15	2	C50,C51	33pF	402	Murata	GRM1555C1H330JA01D	402	<a href="#">490-5936-2-ND</a>	CAP CER 33PF 50V 5% NPO 0402
16	1	D1	Zener 6V	SOT23	Diodes Inc.	MMBZ5233B-FDICT-ND	SOT23	<a href="#">MMBZ5233B-FDICT-ND</a>	DIODE ZENER 6V 350mW SOT23-3
17	1	D2	LED Green 0805	805	Lite On	LTST-C171GKT	805	<a href="#">160-1423-1-ND</a>	LED GREEN CLEAR THIN 0805 SMD
18	1	JP1	JUMPER	HDR_THVT_1x2_100	3M	961102-640A-AR	HDR2X1	<a href="#">3M9447-ND</a>	CONN HEADER VERT SGL 2POS GOLD
19	11	J1,J3,J4,J6,J7,J8,J11,J12,J14,J15,J17	HDR_THVT_1x3_100	3M	961103-640A-AR	HDR3X1		<a href="#">3M9448-ND</a>	CONN HEADER VERT SGL 3POS GOLD
20	1	J5	Header 5x2.0.1" thru-hole	con thvt_shrd_2x5_100_m	3M	N2510-600Z-RB	thvt_shrd_2x5_1	<a href="#">MHC10K-ND</a>	CONN HEADER 10 POS STRIGHT GOLD
21	1	J9	2.1mm x 5.5mm	CP-20ZAH-ND	CUI Inc.	PJ-20ZAH	2.1mm x 5.5mm	<a href="#">CP-20ZAH-ND</a>	CONN PWR JACK 2.1X5.5MM HIGH CUR
22	1	J13	USB Micro B	USB Micro B	FCI	10103592-0001LF	USB MICRO	<a href="#">609-4048-2-ND</a>	CONN RCPT REV MICRO USB B R/A
23	17	LP1,LP2,LP3,LP4,LP5,LP6,LP7,LP8,LP9,LP10,LP11,LP12,LP13,LP14,LP15,LP16,LP17	LP	TESTLOOP	Keystone Electronics	5006	THRU	<a href="#">36-5006-ND</a>	TEST POINT PC COMPACT .063"D BLK
24	1	L1	2.2 uH	1008	TDK	VL525010ET-2R2M	1008	<a href="#">445-6629-1-ND</a>	INDUCTOR POWER 2.2UH 1.3A SMD
25	1	L2	1 uH	1008	TDK	NLCV25T-180M-EFR	1008	<a href="#">445-17086-1-ND</a>	INDUCTOR POWER 1.0UH 1008
26	1	P1	HDMI_IN	CON HDMI RT_19_Op50mm	Molex	471510001	HDMI RT_19_Op	<a href="#">WM19086CT-ND</a>	CONN RCPT 19POS HDMI RT ANG SMD
27	1	P2	HDMI_OUT	CON HDMI RT_19_Op50mm	Molex	471510001	HDMI RT_19_Op	<a href="#">WM19086CT-ND</a>	CONN RCPT 19POS HDMI RT ANG SMD
28	2	Q1,Q2	FDV301N NFET 8V	SOT23	Fairchild Semiconductor	FDV301N	SOT23	<a href="#">FDV301NCT-ND</a>	MOSFET N-CH 25V 220MA SOT-23
29	1	R5	100	402	Yageo	RC0402FR-07100RL	402	<a href="#">311-100LRT-ND</a>	RES SMD 100 OHM 5% 1/16W 0402
30	6	R10,R11,R99,R100,R101,R121	1K	402	Yageo	RC0402JR-0710KL	402	<a href="#">311-10KJRT-ND</a>	RES SMD 1K OHM 5% 1/16W 0402
31	2	R12,R81	100K	402	Yageo	RC0402JR-07100KL	402	<a href="#">311-100KJRT-ND</a>	RES SMD 100K OHM 5% 1/16W 0402
32	1	R13	10	402	Yageo	RC0402JR-0710RL	402	<a href="#">311-10RJRT-ND</a>	RES SMD 10 OHM 5% 1/16W 0402
33	5	R34,R123,R124,R125,R126	0	201	Panasonic	ERJ-1G6NOR00C	201	<a href="#">P15979CT-ND</a>	RES SMD 0.0 OHM JUMPER 1/20W
34	2	R58,R59	2K	402	Yageo	RC0402JR-072KL	402	<a href="#">311-20KJRT-ND</a>	RES SMD 2K OHM 5% 1/16W 0402
35	8	R77,R80,R83,R84,R89,R104,R122,R131	0	402	Panasonic	ERJ-2GEOR00X	402	<a href="#">P0.0JTR-ND</a>	RES SMD 0.0 OHM JUMPER 1/10W
36	1	R127	499K	402	Yageo	RC0402FR-07499KL	402	<a href="#">311-499KJRT-ND</a>	RES SMD 499K OHM 1% 1/16W 0402
37	1	R36	75	402	Yageo	RC0402JR-0775RL	402	<a href="#">311-75JRT-ND</a>	RES SMD 75 OHM 5% 1/16W 0402
38	14	R57,R60,R61,R62,R63,R64,R66,R68,R69,R70,R71,R72,R73,R74	65K	402	Yageo	RC0402FR-0764K9L	402	<a href="#">311-64.9KJRT-ND</a>	RES SMD 64.9K OHM 1% 1/16W 0402
39	1	R75	6.98K	402	Vishay Dale	CRCW0402698FKED	402	<a href="#">541-6.98KJRT-ND</a>	RES SMD 6.98K OHM 1% 1/16W 0402
40	1	R76	PTV09 10K POT	THRUHOLE	BOURNS	PTV09A-4015F-B103	THRUHOLE	<a href="#">PTV09A-4015F-B103-ND</a>	POT 10K OHM 9MM SQ .05W CARB
41	3	R78,R98,R102	10K	402	Yageo	RC0402JR-0710KL	402	<a href="#">311-10KJRT-ND</a>	RES SMD 10K OHM 5% 1/16W 0402
42	2	R79,R88	4.7K	402	Yageo	RC0402JR-0747KL	402	<a href="#">311-4.7KJRT-ND</a>	RES SMD 4.7K OHM 5% 1/16W 0402
43	1	R82	499	402	Vishay Dale	CRCW0402499RDHEOP	402	<a href="#">541-499AJRT-ND</a>	RES SMD 499 OHM 0.5% 1/16W 0402
44	1	R85	750K	402	Vishay Dale	CRCW0402750KJNEO	402	<a href="#">541-750KJRT-ND</a>	RES SMD 750K OHM 5% 1/16W 0402
45	1	R86	240K	402	Vishay Dale	CRCW0402240KJNEO	402	<a href="#">541-240KJRT-ND</a>	RES SMD 240K OHM 5% 1/16W 0402
46	1	R90	2.21K	402	Yageo	RC0402FR-072K21L	402	<a href="#">311-2.21KJRT-ND</a>	RES SMD 2.21K OHM 1% 1/16W 0402
47	1	R91	4.42K	402	Stackpole	RMCF0402FT4K42	402	<a href="#">RMCF0402FT4K42TR-ND</a>	RES SMD 4.42K OHM 1% 1/16W 0402
48	1	R94	1.5K	402	Yageo	RC0402JR-071K5L	402	<a href="#">311-1.5KJRT-ND</a>	RES SMD 1.5K OHM 5% 1/16W 0402
49	2	R95,R96	33	201	Yageo	RC0201JR-0733RL	201	<a href="#">311-33JRT-ND</a>	RES SMD 33 OHM 5% 1/20W 0201
50	1	R103	15K	402	Yageo	RC0402JR-0715KL	402	<a href="#">311-15KJRT-ND</a>	RES SMD 15K OHM 5% 1/16W 0402
51	3	R45,R46,R115	47K	402	Rohm	MCR01MRTJ473	402	<a href="#">RHM47KJRT-ND</a>	RES SMD 47K OHM 5% 1/16W 0402
52	0	R130 - DNI	1K - DNI	402	Yageo	RC0402JR-071KL	402	<a href="#">311-1.0KJRT-ND</a>	RES SMD 1K OHM 5% 1/16W 0402
53	0	R16,R17 - DNI	47K - DNI	402	Rohm	MCR01MRTJ473	402	<a href="#">RHM47KJRT-ND</a>	RES SMD 47K OHM 5% 1/16W 0402
54	0	R24,R25,R120, R129 - DNI	0 - DNI	201	Panasonic	ERJ-1G6NOR00C	201	<a href="#">P15979CT-ND</a>	RES SMD 0.0 OHM JUMPER 1/20W
55	0	R35 - DNI	75 - DNI	402	Yageo	RC0402JR-0775RL	402	<a href="#">311-75JRT-ND</a>	RES SMD 75 OHM 5% 1/16W 0402
56	0	R87 - DNI	10K - DNI	402	Yageo	RC0402JR-0710KL	402	<a href="#">311-10KJRT-ND</a>	RES SMD 10K OHM 5% 1/16W 0402
57	0	R92 - DNI	90.9K - DNI	402	Yageo	RC0402FR-0790K9L	402	<a href="#">311-90.9KJRT-ND</a>	RES SMD 90.9K OHM 1% 1/16W 0402
58	0	R93 - DNI	100K - DNI	402	Yageo	RC0402FR-07100KL	402	<a href="#">311-100KJRT-ND</a>	RES SMD 100K OHM 5% 1/16W 0402
59	1	SW1	PB_SWITCH	SW_MOM_2NO	OMRON	B3SN-3012P	SW MOM_2NO	<a href="#">SW261CT-ND</a>	SWITCH TACTILE SPST-NO 0.05A 24V
60	1	SW2	3POS_SPDT	THRUHOLE_3POS	NKK Switches	MS13ANW03	THRUHOLE_3POS	<a href="#">360-2386-ND</a>	SW SLIDE SPDT 6A SILVER STR 125V
61	1	U1	TMD5171RGZ	48_RGZ	TI	TMD5171RGZ	48_RGZ		3.4 Gbps TMD5 Retimer
62	1	U3	TPS3808G30DBVT	6DBV	TI	TPS3808G30DBVT	6DBV	<a href="#">296-26944-1-ND</a>	IC VOLT SUPERVISOR 3.0V SOT23-6
63	1	U4	TPS62150ARGTT	RG116	TI	TPS62150ARGTT	RG116	<a href="#">296-36472-1-ND</a>	IC REG BUCK SYNC ADJ 1A 160FN
64	0	U6 - DNI	TPS61240DRVT - DNI	6DRV	TI	TPS61240DRVT	6DRV	<a href="#">296-24519-1-ND</a>	IC REG BOOST SYNC SW 0.45A 650N
65	1	U5	TPS74201RGWTT	RGW20	TI	TPS74201RGWTT	RGW20	<a href="#">296-19891-1-ND</a>	IC REG LDO ADJ 1.5A 20VQFN
66	1	U7	TUSB3410VF	LQFP32	TI	TUSB3410VF	LQFP-32	<a href="#">296-12699-ND</a>	IC CONV SERIAL-TO-USB 32-LQFP
67	1	U8	CAT24C256WI-GT3	8SOIC	ON Semiconductor	CAT24C256WI-GT3	8SOIC	<a href="#">CAT24C256WI-GT3OSCT-ND</a>	IC EEPROM 256KBIT 400KHZ 8SOIC
68	1	Y1	12 MHz Crystal	ECX-32	ECS Inc.	ECS-120-20-33-TR	4-SMD	<a href="#">XC1808CT-ND</a>	CRYSTAL 12MHZ 20PF SMD
69	1	U16	TPD2E001DRLR	drl_Spin	TI	TPD2E001DRLR	drl_Spin	<a href="#">296-21883-2-ND</a>	TVS DIODE 5.5VVMW 1000V SOTS
70	4	EVM Assembly	0.75" Standoff	4-40 - F/F	Keystone Electronics	2029	OD 0.187"	<a href="#">36-2029-ND</a>	ROUND STANDOFF 4-40 ALUM 3/4"
71	4	EVM Assembly	0.25" Stainless Steel Screws	4-40 Phillips Panhead	Building Fasteners	PMSS5 440 0025 PH	OD 0.187"	<a href="#">J703-ND</a>	MACHINE SCREW PAN PHILLIPS 4-40
72	4	Shunts	Shunt	SHUNT	3M	969102-0000-DA	SHUNT	<a href="#">3M9580-ND</a>	SHUNT JUMPER. 1" BLACK GOLD
73	1	PCB	TMD5171RGZEVMTNT028		ANY	INT028			PCB board

## 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