

TYMPAN-1 Board Assembly/BOM

Project: Tympan Daughter Board

Part # 7146-0010

Revision: A

Released 01/03/2017 BMP

Item	Quantity	Reference	Description	Manufacturer	Manufacturer Part#	Vendor	Vendor Part #	Footprint
1	0	DOC	Schematic	Creare	7146-0011 Rev. A	NA	NA	NA
2	1	PCB	PCB	Creare	7146-0012 Rev. A	NA	NA	NA
3	10	C1,C4,C9,C10,C12,C13,C14,C15,C16,C22	0.1uF, 50V, 10%, X7R, Ceramic, 0402	TDK Corporation	C1005X7R1H104K050BB	Digi-Key	445-5932-1-ND	CAPC1005X55N
4	5	C2,C3,C7,C8,C25	10uF, 10V, 20%, X5R, Ceramic, 0402	Samsung Electro-Mechanics America,	CL05A106MP5NUNC	Digi-Key	1276-1450-1-ND	CAPC1005X70N
5	3	C5,C6,C11	1uF, 16V, 10%, X5R, Ceramic, 0402	TDK Corporation	C1005X5R1C105K050BC	Digi-Key	445-4978-1-ND	CAPC1005X55N
6	8	C17,C18,C19,C20,C21,C23,C24,C26	2.2uF, 16V, 10%, X6S, Ceramic, 0402	TDK Corporation	C1005X6S1C225K050BC	Digi-Key	445-9103-1-ND	CAPC1005X65N
7	2	D1,D4	LED, Red, 2V, 20mA, 6mcd, 1206	Lite-On Inc.	LTST-C150EKT	Digi-Key	160-1168-1-ND	LEDC3216X110N
8	1	D2	LED, Green, 2.1V, 20mA, 6mcd, 1206	Lite-On Inc	LTST-C150GKT	Digi-Key	160-1169-1-ND	LEDC3216X110N
9	1	D3	LED, Blue, 3.3V, 20mA, 180mcd, 1206	Lite-On Inc	LTST-C150TBKT	Digi-Key	160-1643-1-ND	LEDC3216X110N
10	1	D5	LED, Amber, 2.1V, 20mA, 6mcd, 1206	Lite-On Inc.	LTST-C150AKT	Digi-Key	160-1166-1-ND	LEDC3216X110N
11	1	F1	Fuse, 1A, 125VAC, 63VDC, 1206	Bel Fuse Inc	C1Q 1	Digi-Key	507-1077-1-ND	FUSC3216X78N
12	2	J1,J2	Socket, 24-pos, 2.54mm, 4.7A, Vert., Gold, TH	Samtec Inc.	SSW-124-01-G-S	Digi-Key	SAM1209-24-ND	Samtec_SSW-124-XX-X-S
13	1	J3	Socket, 1-pos, 4.7A, Vert., Gold, TH	Samtec Inc.	SSW-101-01-G-S	Digi-Key	SAM1209-01-ND	SAMTEC_SSW-101-xx-x-S
14	1	J4	Header, 2-pos, 2mm, 2A, SMD	JST Sales America Inc.	B2B-PH-K-S(LF)(SN)	Digi-Key	455-1704-ND	PH_B2B-PH-K-S
15	1	J5	Stereo Jack, 4-pos, 3.5mm, Pink, 12V, 1A, SMD	CUI Inc.	SJ-3524-SMT-TR-PI	Digi-Key	CP-3524SJPICT-ND	CUI_SJ-3524-SMT
16	1	J6	Socket, 4-pos, 2.54mm, 4.7A, Vert., Gold, TH	Samtec Inc.	SSW-104-01-G-S	Digi-Key	SAM1209-04-ND	SAMTEC_SSW-104-xx-x-S
17	4	J7,J8,J9,J11	DNP, Socket, 2-pos, 2.54mm, 4.7A, Vert., Gold, TH	NA	NA	NA	NA	SAMTEC_SSW-102-xx-x-S
18	1	J10	Stereo Jack, 3-pos, 3.5mm, Black, 12V, 1A, SMD	CUI Inc.	SJ-3523-SMT-TR	Digi-Key	CP-3523SJCT-ND	CUI_SJ-3523-SMT
19	2	MIC1,MIC2	Microphone, MEMS, Analog, Omni, -38DB	Knowles	SPH1642HT5H-1	Digi-Key	423-1409-1-ND	Knowles_SPH1642HT5H-1
20	2	R1,R2	1K, 1%, 50V, 1/16W, Thick, 0402	Vishay Dale	CRCW04021K00FKED	Digi-Key	541-1.00KLCT-ND	RESC1005X40N
21	5	R3,R5,R7,R8,R9	220 Ohms, 1%, 50V, 1/16W, Thick, 0402	Vishay Dale	CRCW0402220RFKED	Digi-Key	541-220LCT-ND	RESC1005X40N
22	1	R4	2K, 1%, 50V, 1/16W, Thick, 0402	Vishay Dale	CRCW04022K00FKED	Digi-Key	541-2.00KLCT-ND	RESC1005X40N
23	1	R6	10K, Pot, 1 Turn, 10%, 1/2W, TH	Bourns Inc.	3386F-1-103TLF	Digi-Key	3386F-103TLF-ND	Bourns_3386F-Knob
24	2	R10,R15	2.2K, 1%, 50V, 1/16W, Thick, 0402	Vishay Dale	CRCW04022K20FKED	Digi-Key	541-2.20KLCT-ND	RESC100X50X40L25
25	10	R11,R12,R13,R14,R16,R17,R18,R19,R20,R21	33 Ohms, 1%, 25V, 1/20W, Thick, 0201	Yageo	RC0201FR-0733RL	Digi-Key	311-33.0MCT-ND	RESC0603X26N
26	2	R22,R23	0 Ohm, Jumper, 75V, 1/10W, Thick, 0603	Vishay Dale	CRCW06030000Z0EA	Digi-Key	541-0.0GCT-ND	RESC1609X50N
27	2	R24,R25	DNP, Resistor, 0603	NA	NA	NA	NA	RESC1609X50N
28	1	SW1	Switch, Slide, SPST, 200mA, 12V, SMD	Copal Electronics Inc.	CL-SB-22A-11T	Digi-Key	563-1340-1-ND	Copal_CL-SB-22A-1
29	2	TP1,TP2	Test Point, Miniature, 3.4mm x 1.8mm Pad, SMD	Keystone Electronics	5015	Digi-Key	36-5015CT-ND	TP340X180N
30	1	U1	Bluetooth Module, V2.1+EDR, w/ Trace ANT	Microchip Technology	RN42-I/RM	Digi-Key	740-1038-ND	Microchip_RN42
31	1	U2	Charge Management Controller, Li-Ion, 4.2V, SOT23-5	Microchip Technology	MCP73831T-2ACI/OT	Digi-Key	MCP73831T-2ACI/OTCT-ND	SOT23-5P95_270X145L35X35
32	1	U3	Voltage Regulator, LDO, 1.8V, 250mA, SOT23-5	Texas Instruments	LP5907MFX-1.8/NOPB	Digi-Key	296-41463-1-ND	SOT95P280X145-5N
33	1	U4	Stereo Audio Codec, 1.8V, 40WFAQFN	Texas Instruments	TLV320AIC3206IRSBT	Digi-Key	296-28199-1-ND	QFN40P500X500X80-41N