Variant: 001
Generated: 4/14/2025 3:26 PM
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E-call TI Audio REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	!PCB	1		E-call TI Audio	Any	Printed Circuit Board	
2	AVDD, IOVDD, IOVDD-MB1, VBAT	4		5000	Keystone Electronics	Test Point, Miniature, Red, TH	Red Miniature Testpoint
3	BCLK1, DIN1, DOUT1, FAULT, FSYNC1, MCLK, MUTE, SCL1, SDA1, STANDBY	10		5002	Keystone Electronics	Test Point, Miniature, White, TH	White Miniature Testpoint
4	C1	1	330uF	UCM1H331MNL1GS	Nichicon	CAP, AL, 330 uF, 50 V, +/- 20%, SMD	D10xL10mm
5	C2	1	10 µF	CL32B106KBJNNNE	Samsung Electro-Mechanics	10 µF ±10% 50V Ceramic Capacitor X7R 1210 (3225 Metric)	1210
6	C3, C16	2	1uF	GJ821BR71H105KA12L	MuRata	CAP, CERM, 1 µF, 50 V,+/- 10%, X7R, 0805	0805
7	C4, C12	2	2.2uF	GCM21BR71E225KA73L	MuRata	CAP, CERM, 2.2 µF, 25 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0805	0805
8	C6, C8, C10, C15	4	1uF	CGA3E1X7R1E105K080AC	TDK	CAP, CERM, 1 µF, 25 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
9	C7, C9	2	0.22uF	GCM188R71E224KA55D	MuRata	CAP, CERM, 0.22 uF, 25 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
10	C13, C19, C21, C31	4	10uF	CL21B106KOQNNNG	Samsung	CAP, CERM, 10 µF, 16 V,+/- 10%, X7R, 0805	0805
11	C14, C17, C20, C22, C33, C34	6	0.1uF	8.85012E+11	Wurth Elektronik	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	0402
12	C18	1	2.2uF	C2012X7R1C225K125AB	TDK	CAP, CERM, 2.2 uF, 16 V, +/- 10%, X7R, 0805	0805
13	C23	1	2.2µF	C3216X7R1V225K160AE	TDK	Capacitor Ceramic 2.2uF 35V X7R 10% 1206 T/R	1206
14	C24	1	100nF	CGA2B3X7R1V104K050BB	TDK Corporation	Cap Ceramic 100nF 35V X7R 10% Pad SMD 0402 +125°C Automotive T/R	0402
15	C25, C30	2	0.1uF	CGA2B3X7R1E104K050BB	TDK	CAP, CERM, 0.1 µF, 25 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
16	C26	1	1uF	C1608X7R1V105K080AC	TDK	CAP, CERM, 1 uF, 35 V, +/- 10%, X7R, 0603	0603
17	C27	1	1uF	8.85012E+11	Wurth Elektronik	CAP, CERM, 1 uF, 16 V, +/- 10%, X7R, 0603	0603
18	C32	1	0.01uF	520L103KT16T	AT Ceramics	CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R, 0402	0402
19	C35, C41	2	1uF	GCM188R71C105KA64J	MuRata	CAP, CERM, 1 µF, 16 V,+/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
20	C36	1	4.7uF	GCM32ER71H475KA55L	MuRata	CAP, CERM, 4.7 µF, 50 V,+/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
21	C37	1	0.1uF	GCM155R71H104KE02D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
22	C38, C39, C40	3	22uF	TMK325B7226KMHP	Taiyo Yuden	CAP, CERM, 22 µF, 25 V,+/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
23	D1	1	Green	LTST-C170KGKT	Lite-On	LED, Green, SMD	LED_0805
24	DIAGSW1, MICBIAS1	2		5116	Keystone	Test Point, Miniature, Green, TH	Green Miniature Testpoint
25	H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
26	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
27	H9, H10, H11, H12	4		SJ-5303 (CLEAR)	3M	Bumpon, Hemisphere, 0.44 X 0.20, Clear	Transparent Bumpon
28	J1, J3	2		1725656	Phoenix Contact	Terminal Block, 100mil, 2x1, 6A, 63V, TH	6.2x8.5x5.54 mm
29	J2	1		6.91138E+11	Würth Elektronik	TERM BLK 2POS SIDE ENTRY 5MM PCB	HDR2
30	J4	1		TSW-105-07-G-D	Samtec	Header, 100mil, 5x2, Gold, TH	5x2 Header
31	J5	1		35RASMT4BHNTRX	Switchcraft	Audio Jack, 3.5mm, Stereo, R/A, SMT	Phone Jack, 6x5x17mm
32	J6, J10	2		PBC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Gold, TH	PBC03SAAN
33	J7	1		PBC02DAAN	Sullins Connector Solutions	Header, 2.54mm, 2x2, Gold, TH	Header, 2.54mm, 2x2, TH
34	J8	1		TSW-103-07-G-S	Samtec	Header, 100mil, 3x1, Gold, TH	3x1 Header
35	J9	1		QTE-020-01-L-D-A	Samtec	Connector, Header, High Speed, 20 pairs, SMT	QTE-020-01-X-D-A
36	J12	1		TSW-104-07-G-D	Samtec	Header, 100mil, 4x2, Gold, TH	4x2 Header
37	K1	1		G3VM-31HR(TR05)	Omron Electronic Component	Relay, SPST-NO (1 Form A), 4 A, SMD	6.3x4.4mm
38	L1	1	10uH	VLS6045EX-100M-H	TDK Corporation	Inductor Power Shielded Wirewound 10uH 20% 100KHz Ferrite 3.4A 0.0611Ohm DCR Automotive T/R	
39	L2	1	10uH	VLS6045EX-100M-H	TDK Corporation	Inductor Power Shielded Wirewound 10uH 20% 100KHz Ferrite 3.4A 0.0611Ohm DCR Automotive T/R	Nonstandard
40	L3	1	600 ohm	782633601	Wurth Elektronik	Ferrite Bead, 600 ohm @ 100 MHz, 1 A, 0603	0603
41	L4	1	2.2uH	LPWI201610H2R2T	Littelfuse	Inductor, Shielded, Metal Composite, 2.2 µH, 2.2 A, 0.1 ohm, SMD	2x1.6mm
42	L5	1	3.9uH	1255AY-3R9N=P3	Murata	Shielded Wirewound Inductor 3.9uH 30% 4200mA 0.0264Ω SMD	2424 (6060)
43	MIC1M, MIC1P, MIC2M, MIC2P	4		5003	Keystone Electronics	Test Point, Miniature, Orange, TH	Orange Miniature Testpoint
44	MK1, MK2	2		POM-2242P-C33-R	PUI Audio	Microphone, Condenser, Analog, Omnidirectional, -42DB, TH	6mm DIA
45	R2, R3, R5	3	100k	CPF0603B100KE	TE Connectivity	RES, 100 k, 0.1%, 0.063 W, 0603	0603
46	R6, R7, R15, R16	4	0	RC0603JR-070RL	Yageo	RES, 0, 5%, 0.1 W, 0603	0603
47	R8, R9, R10, R11	4	0	PMR03EZPJ000	Rohm	RES, 0, 0%, 0.25 W, AEC-Q200 Grade 0, 0603	0603
48	R12, R13, R14, R17	4	1.1k	CRCW06031K10JNEA	Vishay-Dale	RES, 1.1 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
49	R18, R19	2	1.50k	RC0603FR-071K5L	Yageo	RES, 1.50 k, 1%, 0.1 W, 0603	0603
50	R20	1	11.8k	CRCW120611K8FKEA	Vishay-Dale	RES, 11.8 k, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
51	R21	1	442	CRCW0603442RFKEA	Vishay-Dale	RES, 442, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
52	R22	1	3.74k	CRCW12063K74FKEA	Vishay-Dale	RES, 3.74 k, 1%, 0.25 W, AEC-Q200 Grade 0, 1206	1206
53	R26	1	330	CRCW0402330RJNED	Vishay-Dale	RES, 330, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
54	SW1	1		TL1015AF160QG	E-Switch	Switch, Tactile, SPST-NO, 0.05A, 12V, SMT	Switch, 4.4x2x2.9 mm
55	SW2	1		76STD01T	Grayhill	Switch, DPDT, 0.15 A, 30 VDC, TH	9.65x9.65mm
56	U1	1			Texas Instruments	22-W Mono Automotive Digital-audio Amplifier with Load Dump and I2C Diagnostics	HTSSOP16
57	U2	1		TAC5312QRGERQ1	Texas Instruments	Automotive Low Power Stereo Audio Codec with integrated programmable boost, micbias and diagnostics	VQFN24
58	U3	1		TPS7A5201QRGRRQ1	Texas Instruments	Automotive-Grade 2-A, High-Accuracy, Low-Noise, LDO Voltage Regulator, RGR0020A (VQFN-20)	RGR0020A
59	U4	1				No Description Available	
60	U5	1		LMR43620RS5QRPERQ1	Texas Instruments	36-V, 1-A/2-A Buck Converter with <3 µA IQ at 150°C TJMAX in 4-mm2 HotRod™ QFN	VQFN-HR9
61	U?	1		TPD2E007DCKR	Texas Instruments	ESD Protection Array for AC Signal Data Interface, 2 Channels, -40 to +85 degC, 3-pin SC70 (DCK), Green (RoHS & no Sb/Br)	DCK0003A
62	C5, C11	0	470pF	GRM188R72E471KW07D	MuRata	CAP, CERM, 470 pF, 250 V, +/- 10%, X7R, 0603	0603
63	FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
64	R1, R4	0	5.6	RL1220S-5R6-F	Susumu Co Ltd	RES, 5.60, 1%, 0.33 W, 0805	0805
65	R23, R24	0	1.50k	RMCF0402FT1K50	Stackpole Electronics Inc	RES, 1.50 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402

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