

**TAS5634EVM Bill of Materials**

Designator	Quantity	Value	Description	PackageReference	PartNumber	Manufacturer
!PCB1	1		Printed Circuit Board		AMPS015	Any
C1	1	2200pF	CAP, CERM, 2200 pF, 16 V, +/- 10%, X7R, 0603	0603	885012206036	Wurth Elektronik
C2, C3, C4, C5, C6, C7	6	470pF	CAP, CERM, 470 pF, 25 V, +/- 5%, C0G/NP0, 0402	0402	GRM1555C1E471JA01D	MuRata
C8, C9, C23, C24, C33, C34, C36, C37, C39, C42, C92, C93, C94, C95, C98, C100, C105	17	0.1uF	CAP, CERM, 0.1 µF, 10 V, +/- 10%, X7R, 0402	0402	GRM155R71A104KA01D	MuRata
C10	1	1uF	CAP, CERM, 1 µF, 6.3 V,+/- 20%, X7R, 0402	0402	GRM155R70J105MA12D	MuRata
C11	1	1uF	CAP, CERM, 1 µF, 16 V,+/- 10%, X7R, 0603	0603	GRM188R71C105KE15D	MuRata
C12, C13	2	47pF	CAP, CERM, 47 pF, 25 V, +/- 5%, C0G/NP0, 0402	0402	GRM1555C1E470JA01D	MuRata
C14	1	100pF	CAP, CERM, 100 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402	GRM1555C1H101JA01D	MuRata
C15	1	1000pF	CAP, CERM, 1000 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402	GRM1555C1H102JA01D	MuRata
C16, C17, C18, C19, C20, C21, C22, C27, C28, C29, C30	11	0.1uF	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0402	0402	GRM155R71C104KA88D	MuRata
C25, C26	2	0.1uF	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0603	0603	GRM188R71C104KA01D	MuRata
C31	1	0.33uF	CAP, CERM, 0.33 µF, 16 V,+/- 10%, X7R, 0603	0603	GRM188R71C334KA01D	MuRata
C32, C35, C41, C91, C97	5	10uF	CAP, CERM, 10 µF, 10 V, +/- 20%, X5R, 0603	0603	GRM188R61A106ME69D	MuRata
C38, C102	2	4700pF	CAP, CERM, 4700 pF, 16 V,+/- 10%, X7R, 0402	0402	GRM155R71C472KA01D	MuRata
C40, C104	2	0.047uF	CAP, CERM, 0.047 µF, 16 V,+/- 10%, X7R, 0402	0402	GRM155R71C473KA01D	MuRata
C43, C46, C53, C62, C68, C72	6	1000uF	CAP, AL, 1000 µF, 100 V, +/- 20%, TH	D18xL35.5mm	ECA-2AM102	Panasonic
C44, C45, C47, C48	4	1uF	CAP, CERM, 1 µF, 100 V,+/- 10%, X7R, 1206	1206	GRM31CR72A105KA01L	MuRata
C49, C51	2	47uF	CAP, AL, 47 µF, 25 V, +/- 20%, 0.4 ohm, SMD	SMT Radial E	EEE-FC1E470P	Panasonic
C50, C52, C60, C61, C63	5	0.1uF	CAP, CERM, 0.1 µF, 25 V,+/- 10%, X7R, 0402	0402	GRM155R71E104KE14D	MuRata
C54, C64, C69, C73	4	0.68uF	CAP, Film, 0.68 µF, 250 V,+/- 10%, TH	18x8x15mm	MKP4F036804F00KSSD	WIMA
C55, C65, C70, C74	4	1000pF	CAP, CERM, 1000 pF, 100 V,+/- 5%, C0G/NP0, 1206	1206	GRM3195C2A102JA01D	MuRata
C56, C66, C71, C75	4	0.01uF	CAP, CERM, 0.01 µF, 100 V,+/- 10%, X7R, 0805	0805	GRM21BR72A103KA01L	MuRata
C57, C58, C59, C67	4	0.033uF	CAP, CERM, 0.033 µF, 100 V,+/- 10%, X7R, 0805	0805	GRM21BR72A333KA01L	MuRata
C76, C88	2	0.1uF	CAP, CERM, 0.1 µF, 50 V, +/- 10%, X7R, 0603	0603	C0603C104K5RACTU	Kemet
C77	1	2.2uF	CAP, CERM, 2.2 µF, 100 V, +/- 10%, X7R, 1210	1210	C1210C225K1RACTU	Kemet
C78	1	0.1uF	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0603	0603	GRM188R72A104KA35J	MuRata
C79	1	0.047uF	CAP, CERM, 0.047 µF, 25 V, +/- 10%, X7R, 0402	0402	GRM155R71E473KA88D	MuRata
C80	1	47uF	CAP, AL, 47 µF, 100 V, +/- 20%, 0.24 ohm, AEC-Q200 Grade 2, TH	D10xL20mm	EEU-FC2A470	Panasonic
C81	1	1uF	CAP, CERM, 1 µF, 100 V, +/- 10%, X7R, 1206	1206	GRM31CR72A105KA01L	MuRata
C82	1	0.01uF	CAP, CERM, 0.01 µF, 100 V, +/- 10%, X7R, 0603	0603	06031C103KAT2A	AVX
C83	1	5600pF	CAP, CERM, 5600 pF, 50 V, +/- 10%, X7R, 0603	0603	GRM188R71H562KA01D	MuRata
C84	1	4700pF	CAP, CERM, 4700 pF, 50 V, +/- 10%, X7R, 0603	0603	C0603X472K5RACTU	Kemet
C85	1	4.7uF	CAP, CERM, 4.7 µF, 25 V, +/- 10%, X7R, 1206	1206	GRM31CR71E475KA88L	MuRata
C86	1	47uF	CAP, AL, 47 µF, 16 V, +/- 20%, 0.36 ohm, SMD	SMT Radial D	EEE-FK1C470P	Panasonic
C87	1	0.47uF	CAP, CERM, 0.47 µF, 25 V, +/- 10%, X7R, 0603	0603	GRM188R71E474KA12D	MuRata
C89, C106	2	10uF	CAP, AL, 10 µF, 16 V, +/- 20%, 1.35 ohm, SMD	SMT Radial B	EEE-FK1C100R	Panasonic

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C90, C107	2	100uF	CAP, AL, 100 µF, 6.3 V, +/- 20%, 0.7 ohm, SMD	SMT Radial C	EEE-FK0J101UR	Panasonic
C96	1	2.2uF	CAP, CERM, 2.2 µF, 10 V, +/- 10%, X5R, 0402	0402	C1005X5R1A225K050B C	TDK
C99	1	0.01uF	CAP, CERM, 0.01 µF, 16 V, +/- 10%, X7R, 0402	0402	GRM155R71C103KA01 D	MuRata
D1, D2, D3, D5, D6, D7, D14, D15	8	Blue	LED, Blue, SMD	BLUE 0603 LED	LB Q39G-L2N2-35-1	OSRAM
D4	1	Red	LED, Red, SMD	Red LED, 1.6x0.8x0.8mm	LTST-C190CKT	Lite-On
D8	1	100V	Diode, Schottky, 100 V, 3 A, SMA	SMA	SK310A-TP	Micro Commercial Component
D9	1	100V	Diode, Schottky, 100 V, 1 A, SMA	SMA	B1100-13-F	Diodes Inc.
D10, D11, D17	3	Green	LED, Green, SMD	LED_0805	LTST-C171GKT	Lite-On
D12	1	Orange	LED, Orange, SMD	LED_0805	LTST-C170KFKT	Lite-On
D13	1	Yellow	LED, Yellow, SMD	0805 LED	LTST-C170KSKT	Lite-On
D16, D18	2	Red	LED, Red, SMD	Red 0805 LED	LTST-C170KRKT	Lite-On
H1	1		Heatsink, Vertical	Heatsink	ATS-TI1OP-519-C1-R3	Advanced Thermal Solutions
H2, H3, H4, H5, H6, H7, H8, H16, H17	9		MACHINE SCREW PAN PHILLIPS M3	M3 Screw	RM3X8MM 2701	APM HEXSEAL
H9, H10, H11, H12, H13, H14, H15	7		Standoff, Hex, 25mm Length, M3, Aluminum	Standoff M3	24438	Keystone
J1	1		Receptacle, 50mil, 6x1, Gold, R/A, TH	6x1 Receptacle	LPPB061NGCN-RC	Sullins Connector Solutions
J2, J17, J31	3		Dual Binding Posts with Base, 2x1, TH	Dual Binding Posts with Base, 2x1, TH	6883	Pomona Electronics
J3	1		Receptacle, 50mil, 6x1, Gold, TH	Receptacle, 6x1, 50mil, TH	851-43-006-10-001000	Mill-Max
J4, J9, J24, J25, J27, J28, J29, J30, J33, J34, J35, J38	12		Header, 100mil, 2x1, Gold, TH	Sullins 100mil, 1x2, 230 mil above insulator	PBC02SAAN	Sullins Connector Solutions
J5	1		Connector, Receptacle, Micro-USB Type AB, R/A, Bottom Mount SMT	Connector, USB Micro AB	DX4R205JJAR1800	JAE Electronics
J6, J10, J11, J12, J13, J19	6		Header, 100mil, 3x1, Gold, TH	PBC03SAAN	PBC03SAAN	Sullins Connector Solutions
J7	1		RCA Jack, Red, R/A, TH	PC Mount Phono Jack-Red, TH	971	Keystone
J8	1		Receptacle, 100mil, 14x2, Gold, TH	14x2 Receptacle	SSW-114-01-G-D	Samtec
J14	1		Header, 2.54mm, 2x2, Gold, TH	Header, 2.54mm, 2x2, TH	PBC02DAAN	Sullins Connector Solutions
J15, J18, J22, J26, J32	5		JUMPER TIN SMD	6.85x0.97x2.51 mm	S1911-46R	Harwin
J16, J20	2		Binding Post, BLACK, TH	11.4x27.2mm	7007	Keystone
J21, J23, J36	3		Header, 100mil, 4x2, Tin, TH	Header, 4x2, 100mil, Tin	PEC04DAAN	Sullins Connector Solutions
J37	1		Header, 100mil, 8x2, Gold, TH	PBC08DAAN	PBC08DAAN	Sullins Connector Solutions
L1, L2	2	220 ohm	Ferrite Bead, 220 ohm @ 100 MHz, 2.2 A, 0603	0603	MPZ1608S221A	TDK
L3	1	120 ohm	Ferrite Bead, 120 ohm @ 100 MHz, 0.4 A, 0402	0402	MMZ1005Y121C	TDK
L4, L5, L6, L7	4	15uH	Inductor, Toroid, Powdered Iron, 15 µH, 9.8 A, 0.031 ohm, TH	28.6x12.3mm	PA6331-AE	Coilcraft
L8	1	100uH	Inductor, Shielded Drum Core, Ferrite, 100 µH, 1.5 A, 0.165 ohm, SMD	SMD	7447714101	Würth Elektronik
Q1, Q2, Q3, Q5, Q8, Q9, Q10, Q11	8	40 V	Transistor, NPN, 40 V, 0.15 A, SOT-23	SOT-23	MMBT2222A	Fairchild Semiconductor
Q4, Q6, Q7, Q12	4	60V	MOSFET, N-CH, 60 V, 0.17 A, SOT-23	SOT-23	2N7002-7-F	Diodes Inc.
R1	1	47.5k	RES, 47.5 k, 1%, 0.063 W, 0402	0402	CRCW040247K5FKED	Vishay-Dale
R2	1	332	RES, 332, 1%, 0.063 W, 0402	0402	CRCW0402332R2FKED	Vishay-Dale
R3, R4, R6, R8, R10, R12	6	33.2k	RES, 33.2 k, 1%, 0.063 W, 0402	0402	CRCW040233K2FKED	Vishay-Dale
R5, R9, R15, R46, R81, R83, R85	7	100	RES, 100, 1%, 0.1 W, 0402	0402	ERJ-2RKF1000X	Panasonic
R7, R11, R16, R50, R82, R84, R86	7	2.15k	RES, 2.15 k, 1%, 0.063 W, 0402	0402	CRCW04022K15FKED	Vishay-Dale
R13, R14, R21, R92	4	47k	RES, 47 k, 5%, 0.1 W, 0603	0603	RC0603JR-0747KL	Yageo America
R17, R18, R23, R25, R80	5	0	RES, 0, 5%, 0.1 W, 0603	0603	CRCW06030000Z0EA	Vishay-Dale

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R19, R44, R45, R52, R58, R59, R60, R66, R67, R68, R89	11	10.0k	RES, 10.0k ohm, 1%, 0.063W, 0402	0402	CRCW040210K0FKED	Vishay-Dale
R20, R48, R49	3	0	RES, 0, 5%, 0.063 W, 0402	0402	ERJ-2GE0R00X	Panasonic
R22, R51, R75, R93	4	432	RES, 432, 0.1%, 0.1 W, 0603	0603	RT0603BRD07432RL	Yageo America
R24, R37, R47	3	100k	RES, 100 k, 1%, 0.063 W, 0402	0402	CRCW0402100KFKED	Vishay-Dale
R26, R27	2	2.00k	RES, 2.00 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402	ERJ-2RKF2001X	Panasonic
R28	1	15.0k	RES, 15.0 k, 1%, 0.063 W, 0402	0402	CRCW040215K0FKED	Vishay-Dale
R29, R31, R34, R53, R55, R56, R57, R101	8	49.9	RES, 49.9, 1%, 0.063 W, 0402	0402	CRCW040249R9FKED	Vishay-Dale
R30, R73	2	1.50k	RES, 1.50 k, 1%, 0.063 W, 0402	0402	CRCW04021K50FKED	Vishay-Dale
R32, R33	2	27.4	RES, 27.4, 1%, 0.063 W, 0402	0402	CRCW040227R4FKED	Vishay-Dale
R35	1	3.09k	RES, 3.09 k, 1%, 0.063 W, 0402	0402	CRCW04023K09FKED	Vishay-Dale
R36, R39, R74, R91	4	360	RES, 360, 5%, 0.063 W, 0402	0402	CRCW0402360RJNED	Vishay-Dale
R38	1	33.0	RES, 33.0, 1%, 0.1 W, 0402	0402	ERJ-2RKF33R0X	Panasonic
R42, R72	2	1.00k	RES, 1.00 k, 1%, 0.063 W, 0402	0402	CRCW04021K00FKED	Vishay-Dale
R43, R71	2	4.99k	RES, 4.99 k, 1%, 0.063 W, 0402	0402	CRCW04024K99FKED	Vishay-Dale
R54, R79	2	470	RES, 470, 1%, 0.063 W, 0402	0402	RC0402FR-07470RL	Yageo America
R61, R62	2	18.0k	RES, 18.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402	CRCW040218K0FKED	Vishay-Dale
R63, R64, R65, R69	4	3.3	RES, 3.3, 5%, 0.1 W, 0603	0603	CRCW06033R30JNEA	Vishay-Dale
R70	1	182k	RES, 182 k, 1%, 0.125 W, 0805	0805	ERJ-6ENF1823V	Panasonic
R76, R77, R78, R94	4	100	RES, 100, 1%, 0.1 W, 0603	0603	CRCW0603100RFKEA	Vishay-Dale
R90	1	30.0k	RES, 30.0 k, 1%, 0.1 W, 0603	0603	RC0603FR-0730KL	Yageo America
R95, R96, R97, R98, R99, R100	6	49.9	RES, 49.9, 1%, 0.05 W, 0201	0201	CRCW020149R9FKED	Vishay-Dale
S1, S2, S3, S4, S5, S6, S8	7		Switch, Tactile, SPST-NO, 0.05A, 12V, SMT	Switch, 4.4x2x2.9 mm	TL1015AF160QG	E-Switch
S7, S9, S10, S11	4		Switch, Toggle, SPDT 1Pos, TH	7 X 11 X4.5 mm	G12AP	NKK Switches
SH1, SH2, SH3, SH4, SH5, SH6, SH7, SH8, SH9, SH10, SH11, SH12, SH13, SH14, SH15, SH16, SH17, SH18, SH19	19	1x2	Shunt, 100mil, Gold plated, Black	Shunt	SNT-100-BK-G	Samtec
TP1, TP2	2		Test Point, Miniature, Orange, TH	Orange Miniature Testpoint	5003	Keystone
TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP16, TP18, TP19, TP20, TP21, TP22, TP23, TP24, TP25, TP26, TP27, TP28, TP29, TP30, TP31	23	Grey	Test Point, Multipurpose, Grey, TH	Grey Multipurpose Testpoint	5128	Keystone
TP15, TP17	2		Test Point, Miniature, Red, TH	Red Miniature Testpoint	5000	Keystone
U1	1		MIXED SIGNAL MICROCONTROLLER, RHA0040B (VQFN-40)	RHA0040B	MSP430G2955IRHA40R	Texas Instruments
U2	1		EEPROM, 512KBIT, 400KHZ, 8TSSOP	TSSOP-8	24LC512-I/ST	Microchip

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U3	1		USB Streaming Controller, PFB0048A, NRND	PFB0048A	TAS1020BPFBR	Texas Instruments
U4	1		Photolink- Fiber Optic Receiver, TH	13.5x10x9.7mm	PLR135/T10	Everlight
U5, U6, U8, U9	4		Single 2-Line to 1-Line Data Selector Multiplexer, DCT0008A (SSOP-8)	DCT0008A	SN74LVC2G157DCTR	Texas Instruments
U7, U16	2		Automotive Catalog Single 2-Input Positive-AND Gate, DCK0005A, LARGE T&R	DCK0005A	SN74LVC1G08QDCKR Q1	Texas Instruments
U10	1		192kHz PWM Modulator with integrated ASRC and Audio Processor, DCA0056K (TSSOP-56)	DCA0056K	TAS5558DCAR	Texas Instruments
U11	1		300-W Stereo and 600-W Mono HD Digital Input High Efficiency Class-D Power Stage, DDV0044D (TSSOP-44)	DDV0044D	TAS5634DDVVR	Texas Instruments
U12	1		High Voltage 1A Step Down Switching Regulator, 10-pin LLP, Pb-Free	SDC10A	LM5010ASD/NOPB	Texas Instruments
U13	1		1A Low Dropout Regulator, 4-pin SOT-223, Pb-Free	MP04A	LM2940IMP-12/NOPB	Texas Instruments
U14, U18	2		LDO with 4.7 to 15 V Input and 3.3 V Output, -40 to 125 degC, 8-Pin SON (DRJ), Green (RoHS & no Sb/Br)	DRJ0008A	TLV1117-33IDRJR	Texas Instruments
U15	1		Single Output Low Noise LDO, 400 mA, Fixed 1.8 V Output, 1.7 to 5.5 V Input, with Reverse Current Protection, 5-pin SOT-23 (DBV), -40 to 85 degC, Green (RoHS & no Sb/Br)	DBV0005A	TPS73618DBVR	Texas Instruments
U17	1		192 kHz Digital Audio Interface Transceiver, PCM, S/PDIF, 1.8 - 3.3V, -40 to 85 degC, 48-Pin TQFP (PFB), Green (RoHS & no Sb/Br)	PFB0048A	DIX4192IPFBR	Texas Instruments
Y1	1		Oscillator, 6MHz, 3.3V, SMD	2.5x1x2.5mm	625L3I006M00000	CTS Electrocomponents
C101, C103	0	33pF	CAP, CERM, 33 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402	GRM1555C1H330JA01D	MuRata
FID1, FID2, FID3, FID4, FID5, FID6	0		Fiducial mark. There is nothing to buy or mount.	Fiducial	N/A	N/A
R40, R41	0	10.0k	RES, 10.0k ohm, 1%, 0.063W, 0402	0402	CRCW040210K0FKED	Vishay-Dale
R87	0	0	RES, 0, 5%, 0.125 W, 0805	0805	ERJ-6GEY0R00V	Panasonic
R88	0	1.00Meg	RES, 1.00 M, 1%, 0.063 W, 0402	0402	CRCW04021M00FKED	Vishay-Dale
TP3, TP4, TP5, TP6	0		Test Point, Miniature, Orange, TH	Orange Miniature Testpoint	5003	Keystone
Y2	0		Crystal, 12.288 MHz, 18pF, SMD	Crystal, 2.5x1x3.2mm	ABM8G-12.288MHZ-18-D2Y-T	Abracon Corporation

Notes:

Unless otherwise noted in the Alternate PartNumber and/or Alternate Manufacturer columns, all parts may be substituted with equivalents.

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