ON Semiconductor

Bill of Materials for the AP1302CSSL00SMGAH-GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1 C2 C4 C5 C8 C9 C11 C13 C14 C16 C17 C51 C52 C54 C55 C56 C59	17	CAP, CERAMIC, 10uF, 10V, X7R, 10%, 0805	10uF	10%	c0805-s0	Murata	GRM21BR71A106KE51L	Yes	Yes
C3	1	CAP, TANTALUM CHIP, STD, 47uF, 16V, 10%, 6032	47uF	10%	c6032-s0	AVX	TAJC476D016R	Yes	Yes
C6 C10	2	CAP, CERAMIC, 10uF, 25V, X7R, 10%, 0805	10uF	10%	c0805-s0	Panasonic	ECJ2VB1E106K	Yes	Yes
C7 C12 C18 C53	4	CAP, CERAMIC, 33pF, 50V, C0G (NP0), 10%	33pF	10%	c0402-s0	AVX	04025A330KAT2A	Yes	Yes
C15	1	CAP, CERAMIC, 22pF, 50V, C0G (NP0), 10%, 0402	22pF	10%	c0402-s0	AVX	04025A220KAT2A	Yes	Yes
C19 C20 C21 C22 C23 C24 C27 C28 C31 C34 C36 C37 C38 C39 C40 C41 C43 C46 C48 C49 C50 C58 C57 C60 C61 C62 C64 C66 C68 C70 C72 C74 C75 C76 C77 C78 C79 C80 C81 C82 C83 C121 C122 C123	44	CAP, CERAMIC, 100nF, 10V, X5R, 20%, 0201	100nF	20%	c0201-s0	Panasonic	ECJZEB1A104M	Yes	Yes
C25 C29 C32 C35 C44 C47	6	CAP, CERAMIC, 10nF, 10V, X5R, 10%, 0201	10nF	10%	c0201-s0	Panasonic	ECJZEB1A103K	Yes	Yes
C26 C30 C33 C42 C45	5	CAP, CERAMIC, 1uF, 6.3V, X7R, 10%, 0402	1uF	10%	c0402-s0	Kemet	C0402C105K9RACTU	Yes	Yes
C63 C65 C67 C69 C71 C73	6	CAP, TANTALUM CHIP, STD, 10uF, 10V, 10%, 3216	10uF	10%	c3216-s0	AVX	TAJA106K010R	Yes	Yes
D1	1	DIODE, LED, CHIP, GRN, CLEAR LENS, 2.0V, 20mA. SMD. 0603	GRN	-	d0603-s0	Lite-On	LTST-C190KGKT	Yes	Yes
FD1 FD2 FD3 FD4 FD5 FD6	6	FIDUCIAL, GLOBAL, 40 MIL ROUND PAD WITH 120 MIL ROUND SOLDERMASK	FIDUCIAL	-	fiducial-global-s0	-	-	Yes	Yes
FD7 FD8	2	FIDUCIAL, SG, SKIP BLOCK, 80 MIL ROUND PAD WITH 85 MIL ROUND SOLDERMASK	SKIP BLOCK	-	fiducial-skipblock-sig-s0	-	-	Yes	Yes
J1	1	CONN, SOCKET, HIGH SPEED, 2x26, 52 SIG PINS, 0.635MM PITCH, ALIGNMNT PINS, 1 GND BUS PIN, LIGHT GOLD PLTG, RETENTION PINS	CON52-2x26-I (QFS)	-	con52-p635-fst-s0	Samtec	QFS-026-04.25-L-D-A-RT1	Yes	Yes
JP1 JP2 JP3 JP4 JP5 JP6	6	JUMPER, 3x2, 2 PIN, 2MM PITCH, WITH SHORTING BAR, THRU-HOLE (PART IS EXACTLY LIKE 3M # 951102-8622-AR, WITH SHORTED PINS)	JMP6-2PIN_SHORTED	-	jmp2-2mm-shrt-t0	N/A	N/A	Yes	Yes
L1 L2 L3	3	IND, FERRITE CHIP, 470 OHM AT 100MHz, 0.2 OHM DC. 0603	1A	-	ind0603-s0	Murata	BLM18PG471SN1D	Yes	Yes
MH1 MH2 MH3 MH4 MH5 MH5	5	HOLE, MOUNTING, PLATED, 200 MIL ROUND PAD WITH 125 MIL HOLE	200RD125P	-	mtg200rd125p	N/A	N/A	Yes	Yes
P1 P3 P5 P6 P10 P12 P13 P16	8	CONN, HEADER, VERTICAL, 3x1, 3 PIN, 2MM PITCH, THRU-HOLE	HDR1-3x3-P	-	con-3-hdr-t3	3M	951103-8622-AR	Yes	Yes
P2	1	CONN, JACK, POWER, MALE, HIGH CURRENT, 3 PIN, 16V @ 2.5A, .567"L x .354"W x .433"H	JACK-3-PWR-16V-P	-	con-3-jack-t1	CUI Inc.	PJ-002A	Yes	Yes
P4 P14 P17	3	CONN, HEADER, VERTICAL, 3x3, 6 PIN, 2MM PITCH, THRU-HOLE	HDR4-2x3-P	-	con-6-hdr-t2	3M	951206-8622-AR	Yes	Yes
P7 P8 P9 P15 P24	5	CONN, HEADER, VERTICAL, 1x2, 2 PIN, 2MM PITCH, THRU-HOLE	HDR2-1x2-P	-	con-2-hdr-t1	3M	951102-8622-AR	Yes	Yes
P11	1	CONN, HEADER, HIGH SPEED, 2x26, 52 SIG PINS, 0.635MM PITCH, ALIGNMNT PINS, 1 GND BUS PIN, HEAVY GOLD PLTG, RETENTION PINS	HDR52-2x26-P (QMS)	-	con52-p635-mst-s0	Samtec	QMS-026-05.75-H-D-A-RT1	Yes	Yes
P23	1	CONN, HEADER, VERTICAL, 2x5, 10 PIN, 2MM PITCH, THRU-HOLE	HDR10-2x5-P	-	con-10-hdr-p2-t0	3M	951210-8622-AR	Yes	Yes
R1 R2 R11 R15 R16 R21 R27 R28 R30 R31 R42 R45 R46 R49 R50 R61 R62 R72 R76 R78 R90 R92 R93 R94 R95 R96 R97 R98 R99 R100 R101 R102 R103 R104 R105 R106 R109	37	RESISTOR, THICK FILM CHIP, SMD, 0 OHM JUMPER, 0.063W, 5%, 0402	0	5%	r0402-s0	Panasonic	ERJZGE0R00X	Yes	Yes
R3	1	RESISTOR, THICK FILM CHIP, SMD, 560 OHM, 0.063W, 5%, 0402	560	5%	r0402-s0	Panasonic	ERJZGEJ561X	Yes	Yes
R4	1	RESISTOR, POTENTIOMETER, SIDE ADJ, 10K, 0.5W, 10%, SMD, .264"L x .192"W x .290"H	10K	10%	pot-3-s3	Bourns	3361S-1-103GLF	Yes	Yes
R5 R47 R60	3	RESISTOR, THICK FILM CHIP, SMD, 47K, 0.063W, 1%, 0402	47K	1%	r0402-s0	Rohm	MCR01MZPF4702	Yes	Yes
R6	1	RESISTOR, PRECISION THICK FILM CHIP, SMD, 2.4K, 0.1W, 1%, 0402	2.4K	1%	r0402-s0	Panasonic	ERJ2RKF2401X	Yes	Yes
R7 R9 R10 R29 R37 R38 R39 R43 R55 R60 R68 R70 R71 R75	14	RESISTOR, THICK FILM CHIP, SMD, 10K, 0.063W, 5%, 0402	10K	5%	r0402-s0	Panasonic	ERJZGEJ103X	Yes	Yes
R8 R12 R17 R18 R74	5	RESISTOR, POTENTIOMETER, SIDE ADJ, 50K, 0.5W, 10%, SMD, .264"L x .192"W x .290"H	50K	10%	pot-3-s3	Bourns	3361S-1-503GLF	Yes	Yes
R13 R14 R19 R20 R73	5	RESISTOR, THICK FILM CHIP, SMD, 24K, 0.1W, 5%, 0402	24K	5%	r0402-s0	Panasonic	ERJZGEJ243X	Yes	Yes
R32	1	RESISTOR, THICK FILM CHIP, SMD, 1.0K OHM, 0.1W, 5%, 0402	1.0K	5%	r0402-s0	Panasonic	ERJZGEJ102X	Yes	Yes
R40 R41 R88 R89	4	RESISTOR, THICK FILM CHIP, SMD, 1.5K, 0.1W, 5%, 0402	1.5K	5%	r0402-s0	Panasonic	ERJZGEJ152X	Yes	Yes
R82 R83 R84	3	RESISTOR, THICK FILM CHIP, SMD, 33 OHM, 0.063W, 5%, 0402	33	5%	r0402-s0	Panasonic	ERJZGEJ330X	Yes	Yes
SW1	1	SWITCH, PUSH BUTTON, SEALED TACTILE, COMPACT, 2 PIN. SPST. SMD	PB-SPST	-	sw-2-s0	ALPS Electric	SKQYAAE010	Yes	Yes
TP7 TP8 TP10 TP11 TP12 TP14 TP15 TP16 TP17 TP19 TP21 TP23 TP24 TP25 TP26 TP27 TP28 TP29 TP30 TP31 TP32 TP33 TP34 TP35 TP36 TP37 TP38 TP39 TP40 TP41 TP42 TP43 TP44 TP45 TP46 TP47 TP48 TP49 TP50 TP51 TP52 TP53 TP54	41	CONN, TERMINAL, TEST POINT MINIATURE, RED, THRU HOLE, PCB PROBE LOCATION	TSTPT-5000-RED	-	con-1-tstpt-t0	Keystone Electronics	5000	Yes	Yes
TP13 TP18	2	CONN, TERMINAL, TEST POINT COMPACT, .015 THICK, SMT	TSTPT-5016	-	con-1-tstpt-s1	Keystone Electronics	5016	Yes	Yes
U1	1	IC, VOLTAGE REGULATOR, LDO, LINEAR, ADJ, 1.5A, WITH PROGRAMMABLE SOFT-START, SON10	TPS74801	-	son10-p50-epad-s0	Texas Instruments	TPS74801DRCR	Yes	Yes
U10	1	IC, IMAGE COPROCESSOR, AP1301, 6.5MM X 6.5MM, FBGA120, ASSY OF AP1301-ICP3 , 6.5x6.5 AND YAMAICHI TCBGA-120-0.50-1-C (DWG # YEU-A1861) (SMT)	AP1301-ICP3-DEMO_6.5x6.5	-	mod-120-bga-p50-dut-skt-s1	Aptina Imaging /Yamaichi Electronics	AP1301 ICP3 (6.5x6.5)	Yes	Yes
U2 U3 U5 U6 U14	5	IC, VOLTAGE REGULATOR, LDO, LINEAR, ADJ, 500mA, 1.2 To 5.5V OUTPUT, 2.7 TO 5.5V INPUT, HIGH PSRR, LOW NOISE, SOT223-6	TPS79501	-	sot223-6-s0	Texas Instruments	TPS79501DCQ	Yes	Yes
U4	1	IC, SNIPLE SEQUENCER, OPEN DRAIN OUTPUT, -40°C ~ 85°C, SC70-6	ADM1085AKSZ	-	sc70-6-s0	Analog Devices	ADM1085AKSZ-REEL7	Yes	Yes
U7	1	OSC, CLOCK, ULTRA MINIATURE, MEMS, SMD, CMOS, 16mA, 1.8V TO 3.3V, 48MHz, 5.0MM x 3.2MM x .90MM, -40° C ~ +85° C	48MHz	-	osc4-s6	Abracon Corp.	ASFLMB-48.000MHZ-L	Yes	Yes
U8	1	IC, AND GATE, SINGLE, 2 INPUT POSITIVE, SOL, SC70-5	SN74AUC1G08	-	sc70-5-s0	Texas Instruments	SN74AUC1G08DCKR	Yes	Yes
U9	1	IC, SUPERVISOR, MICROPROCESSOR POWER SUPPLY, 2.93V, ACTIVE LOW RESET, SOT143-4	CAT811	-	sot143-4-s0	ON Semiconductor	CAT811STBI	No	Yes
U11 U13	2	IC, TRANCEIVER, BUS, DUAL 2-BIT, DUAL-SUPPLY, TRI-STATE, 1.2V TO 3.6V, SSOP8	SN74AVC2T45	-	ssop8-p65-s0	Texas Instruments	SN74AVC2T45DCTR	Yes	Yes
U12	1	IC, SERIAL FLASH MEMORY, CMOS, 4M-BIT (4M x 1, 2M x 2, 1M x 4), 40 MHz, 1.8V, SOI	MX25U4035MI-25G	-	soic8-p127-nb-s0	Macronix International	MX25U4035MI-25G	Yes	Yes
U15 U16	2	IC, VOLTAGE REGULATOR, LDO, LINEAR, FIXED, 3.3V, 300mA, INPUT VOLTAGE 2.5 TO 5.5V, TSOT23-5 (TSOP5)	ADP1714AUJZ-3.3	-	tsot23-5-s0	Analog Devices	ADP1714AUJZ-3.3-R7	Yes	Yes
U17 U18	2	IC, BUFFER, SINGLE SCHMITT-TRIGGER, SOT23-5	SN74AUC1G17	-	sot23-5-s0	Texas Instruments	SN74AUC1G17DBVR	Yes	Yes
U19 U20	2	IC, LEVEL TRANSLATOR, DUAL, LOW VOLTAGE, 8MBPS, 1.65V TO 5.5V, SOT23-8	MAX3373E	-	sot23-8-s0	Maxim	MAX3373EEKA+T	Yes	Yes
U21	1	IC, TRANSLATOR, NON-INVERTING, 8-BIT BIDIRECTIONAL, 60Mbps, 1.2V TO 3.6V (A PORT), 1.65V TO 5.5V (B PORT), TSSOP20	TXS0108EPWR	-	tssop20-p65-s0	Texas Instruments	TXS0108EPWR	Yes	Yes