



Bill of Materials for the AP0201ATSL00XEGAH3-GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Submission Allowed	Last Pass
C12 C15 C44 C47 C56 C94 C100 C104 C106 C305 C308 C399 C500	16	CAP. TANTALUM CHIP LOW ESR, 10uF, 10V, 10%, 25°C	10uF	10%	3216-18	AUX	TPSA100K10R0300	Yes	Yes
C33 C73 C74 C77 C78 C87 C83 C86 C95 C96	10	CAP CERAMIC, 100uF, 16V, X7R, 10%, 0402	100uF	10%	402	Murata	GRM150R71C104K40D0	Yes	Yes
C96 C143 C81 C82	3	CAP CERAMIC, 22uF, 50V, X5R (20°C), 10%, 0402	22uF	10%	402	AVX	2420A0220R47A	Yes	Yes
C96 C143 C81 C82	3	CAP CERAMIC, 22uF, 50V, X5R (20°C), 10%, 0402	22uF	10%	402	AVX	2420A0220R47A	Yes	Yes
C45 C103 C104 C56 C58 C98 C75 C87 C90 C91 C92 C93 C94 C98 C102 C105 C107 C109 C101 C104	20	CAP CERAMIC, 100uF, 10V, X5R, 20%, 0201	100uF	20%	201	Panasonic	ECJ2Z81A104M	Yes	Yes
C96 C143 C81 C82	3	CAP CERAMIC, 22uF, 50V, X5R (20°C), 10%, 0402	22uF	10%	402	Panasonic	ECJ2Z81A040M	Yes	Yes
C96 C143 C81 C82	3	CAP CERAMIC, 22uF, 50V, X5R (20°C), 10%, 0402	22uF	10%	402	Panasonic	ECJ2Z81A040M	Yes	Yes
C96 C143 C81 C82	3	CAP CERAMIC, 22uF, 50V, X5R (20°C), 10%, 0402	22uF	10%	402	Panasonic	ECJ2Z81A040M	Yes	Yes
C103 C104 C105 C106 C141 C142 C143 C144 C144 C46 C57 C243	12	CAP CERAMIC, 100uF, X7S, 20%, 0201, -55+125C	100uF	20%	201	TDK	CGS3X7S1A04M300	Yes	Yes
F284	1	CONN PERSHAW, 2-P, 2V, 95%, 10%, 0402	2-P	-5%	201	Ampcon	CVS007100H098P711	Yes	Yes
D1	1	DIODE, LED, CHIP, GREEN, CLEAR LENS, 2.0V, 20MA, 5MMx5MM	GRN		603	Lite-On	LTST-C10R0KKT	Yes	Yes
D2 D3	2	DIODE, SCHOTTKY RECTIFIER, 5MS, 20V, 1A, 400V, 1.5MMx1.5MM	20V		500123	NXP Semiconductors	PMR020104H0	Yes	Yes
J1	1	CONN, BOARD-TO-BOARD, HIGH SPEED, 240, 52 SQ PINS, 0.53MM PITCH, ALIGNMENT PIN, 1 COND BLUE PIN, 1 COND BLUE PIN, 1 COND RED PIN, 1 COND GREEN PIN	C08D-240-1 (GFS)			Samsic	GFS-08-04-25-L-C-A-R11	Yes	Yes
P4 P11 P22 P25 P22 P27 P27 P24 P27	2	CONN, HEADER, VERTICAL, 1x2, 3 PIN, 2MM PITCH, THROUGH HOLE	HDR3-1x2-P			JM	951102-8822-04	Yes	Yes
P6	1	CONN, HEADER, HIGH SPEED, 240, 52 SQ PINS, 0.53MM PITCH, 0.75 LEAD STYLE, ALIGNMENT PING, 1 COND BLUE PIN, REVISED PLATING, RETENTION PLUG	HDR3-240-05-75-P (GMS)			Samsic	GMS-08-05-75-H-D-A-R11	Yes	Yes
P4 P2 P3 P14 P12 P17 P17 P2 P4 P26 P27 P27 P27 P42 P42 P42 P42 P42 P42 P42 P42 P42 P42 P42 P42 P42 P42 P42 P42 P42	27	CONN, HEADER, VERTICAL, 1x3, 3 PIN, 2MM PITCH, THROUGH HOLE	HDR3-1x3-P			JM	951102-8822-04	Yes	Yes
P9	1	CONN, JACK, POWER, MALE, HIGH CURRENT, 3 PIN, 0.8MMx0.8MM	JACK-3-PWR-34P-P			CSL Inc.	PJ-102M	Yes	Yes
P18	1	CONN, HEADER, TOP SHROUDED VERTICAL, 2x1x3, 3 PIN, 2MM PITCH, THROUGH HOLE	HDR2-2x1x3-P (T8)			Samsic	T8T-11421-G-D	Yes	Yes
P27	1	CONN, HEADER, VERTICAL, 2x3, 4 PIN, 2MM PITCH, THROUGH HOLE	HDR3-2x3-P			JM	95104-8822-04	Yes	Yes
P38	1	CONN, HEADER, VERTICAL, 2x5, 15 PIN, 100 PITCH, 0.8MM LEAD STYLE	HDR15-2x5-P (TSW)			Samsic	TSW-105-07-G-D	Yes	Yes
P44 P62	2	CONN, HEADER, VERTICAL, 2x4, 8 PIN, 100 PITCH, 0.8MM LEAD STYLE	HDR8-2x4-P			Tayo Electronics	8727-L	Yes	Yes
R4	1	RESISTOR, THICK FILM CHIP, 5MΩ, 500 OHM, 0402	500	5%	402	Panasonic	ERJGEJ051X	Yes	Yes
R10 R14 R16 R24 R62 R64 R62 R67 R72 R72 R81 R82 R102 R103 R107 R108 R109 R11 R41 R42 R43 R45 R47 R48 R49 R41 R62 R67 R72 R72 R81 R82 R62 R67 R68 R69 R81 R82 R92 R94 R95 R96 R124	17	RESISTOR, THICK FILM CHIP, 5MΩ, 0 OHM JUMPER, 0.80MMx0.80MM, 0402	0	5%	402	Panasonic	ERJGE0R0X	Yes	Yes
R10 R14 R16 R24 R62 R64 R62 R67 R72 R72 R81 R82 R102 R103 R107 R108 R109 R11 R41 R42 R43 R45 R47 R48 R49 R41 R62 R67 R72 R72 R81 R82 R62 R67 R68 R69 R81 R82 R92 R94 R95 R96 R124	29	RESISTOR, THICK FILM CHIP, 5MΩ, 10K, 0.80MMx0.80MM, 0402	10K	5%	402	Panasonic	ERJGEJ100X	Yes	Yes
R10 R20	2	RESISTOR, THICK FILM CHIP, 5MΩ, 33 OHM, 0.80MMx0.80MM, 0402	33	5%	402	Panasonic	ERJ20E200X	Yes	Yes
R10	1	RESISTOR, PRECISION THICK FILM CHIP, 5MΩ, 1.0K, 0.80MMx0.80MM, 0402	1.1K	1%	402	Panasonic	ERJ20PF101X	Yes	Yes
R17	1	RESISTOR, PRECISION THICK FILM CHIP, 5MΩ, 2.20K, 0.80MMx0.80MM, 0402	2.20K	1%	402	Panasonic	ERJ20PF221X	Yes	Yes
R18 R22	2	RESISTOR, PRECISION THICK FILM CHIP, 5MΩ, 20.0K, 0.80MMx0.80MM, 0402	20.0K	1%	402	Panasonic	ERJ20PF202X	Yes	Yes
R21 R26	2	RESISTOR, THICK FILM CHIP, 5MΩ, 15.0K OHM, 0.80MMx0.80MM, 0402	15.0K	1%	402	Panasonic	ERJ20PF150X	Yes	Yes
R20	1	RESISTOR, PRECISION THICK FILM CHIP, 5MΩ, 30.1K, 0.80MMx0.80MM, 0402	30.1K	1%	402	Panasonic	ERJ20PF301X	Yes	Yes
R26	1	RESISTOR, PRECISION THICK FILM CHIP, 5MΩ, 14K, 0.80MMx0.80MM, 0402	14K	1%	402	Panasonic	ERJ20PF142X	Yes	Yes
R62 R64 R62 R81 R84 R16	6	RESISTOR, THICK FILM CHIP, 5MΩ, 0.1 OHM, 0.70MMx0.70MM, 0402	0.1 OHM	5%	402	Panasonic	ERJ20E010X	Yes	Yes
R55	1	RESISTOR, THICK FILM CHIP, 5MΩ, 10 OHM, 0.80MMx0.80MM, 0402	10	5%	402	Panasonic	ERJ20E100X	Yes	Yes
R66	1	RESISTOR, THICK FILM CHIP, 5MΩ, 1M, 0.80MMx0.80MM, 0402	1M	5%	402	Panasonic	ERJ20E1M0X	Yes	Yes
R67 R68	2	RESISTOR, THICK FILM CHIP, 5MΩ, 100K, 0.80MMx0.80MM, 0402	100K	5%	402	Panasonic	ERJ20E100K	Yes	Yes
R68	1	RESISTOR, PRECISION THICK FILM CHIP, 5MΩ, 150 OHM, 0.80MMx0.80MM, 0402	150	1%	402	Panasonic	ERJ20PF150X	Yes	Yes
R102 R103	2	RESISTOR, THICK FILM CHIP, 5MΩ, 1.5K, 0.70MMx0.70MM, 0402	1.5K	5%	402	Panasonic	ERJ20E150X	Yes	Yes
S07	1	SWITCH, PUSH BUTTON, SEALED TACTILE, NOM. 2.1V, 0.150MMx0.150MM, 12.0MMx12.0MM	YB-SPT			C&K Components	PT3505L055MTR1F5	Yes	Yes
T23 T24	2	CONN, TERMINAL, TEST POINT COMPACT, .015 DIA, .5MMx1.0MM	T23TP-0016			Keyence Electronics	5016	Yes	Yes
U1	1	C, IMAGE COMPRESSOR, AP7000, PFS100, AS67 OP AMP/VIDEO DEMO AND THERMAL CONTROL IC/8-3451-1 (2524)	AP7000-DEMO-SKT		F86A100	Alpha Imaging (Newark Electronics)	AP7000	Yes	Yes
U4 U5 U18	3	IC, VOLTAGE REGULATOR, 5V, 1.5A, 1.5V TO 5.5V, 150mA TO 1.5A, 1.5V TO 5.5V, 150mA TO 1.5A, 1.5V TO 5.5V, 150mA TO 1.5A	ADP174ALU2-3.3		TSOT23-5	Analog Devices	ADP174ALU2-3.3-R7	Yes	Yes
U6	1	IC, VOLTAGE REGULATOR, LOW LINEAR, ADJ., 1.5A, WITH PROGRAMMABLE OVP, STAP, SON8	TPS74801		SON8	Texas Instruments	TPS74801DRICR	Yes	Yes
U7	1	IC, VOLTAGE REGULATOR, LOW LINEAR, ADJ., 300MA, 1.5V TO 5.5V, 100mA TO 1.5A, 1.5V TO 5.5V, 100mA TO 1.5A	TPS25951		SOT23-6	Texas Instruments	TPS25951DCQ	Yes	Yes
U8 U20 U27	3	IC, AND GATE, SINGLE, 2-INPUT POSITIVE, 1.8V TO 5.5V, 3.5MMx4.5MM	SN74VC103		SOT23-5	Texas Instruments	SN74VC103DBWR	Yes	Yes
U9	1	IC, SERIAL INTERFACE, 0.1uA, 2.0V, 10MHz, 470-pin, 470-pin	24FC34A591		SO8	Microchip	24FC34A591	Yes	Yes
U10 U15	2	IC, VOLTAGE REGULATOR, LOW LINEAR, ADJ., HIGH PSRR, 1.5A, 1.5V TO 5.5V	TPS79001		SOT23-6	Texas Instruments	TPS79001DBWR	Yes	Yes
U11	1	IC, I/O EXPANDER, I2C, 8-BIT, 800KHz, 1.8V TO 5.5V, TSSOP8	PCAL6408BWRU		TSSOP8	NXP Semiconductors	PCAL6408BWRU	Yes	Yes
U12	1	IC, VOLTAGE REGULATOR, POSITIVE, LOW, LOW VOLTAGE, 1.5A, 1.5V TO 5.5V	LT1963EST-3.3V		SOT23-5	Linear Technology	LT1963EST-3.3PWR	Yes	Yes
U13	1	IC, BUFFER, SINGLE CHANNEL, 7-TUPLE, 20mA, 3.3V, 3.3V	SN74VCG17		SOT23-5	Texas Instruments	SN74VCG17DBWR	Yes	Yes
U14	1	IC, BUFFER, SINGLE CHANNEL, 7-TUPLE, 20mA, 3.3V, 3.3V	SN74VCG17		SOT23-5	Texas Instruments	SN74VCG17DBWR	Yes	Yes
U17	1	IC, SERIAL INTERFACE, 10MHz, 10MHz, 1.8V TO 5.5V, 470-pin	93M5601-R		SO8	STMicroelectronics	M5601-RBWRP	Yes	Yes
U21	1	IC, TRANSDUCER, VOLTAGE LEVEL, 3-BIT, BIPOLAR, 100MHz, 1.2V TO 3.6V (A PORT), 1.2V TO 3.6V (B PORT), 1.2V TO 3.6V (C PORT)	T08102DCUR		VSSOP8	Texas Instruments	T08102DCUR	Yes	Yes
U26	1	IC, SUPPLY VOLTAGE MONITOR, MICROPROCESSOR POWER, 300mA, 1.2V TO 3.6V	CAT811		SOT143-4	ON Semiconductor	CAT811SB	Yes	Yes
U28	1	IC, TRANSDUCER, DUAL 4-BIT, CONFIGURABLE VOLTAGE TRANSLATION, 1.8V TO 3.6V, 1.8V TO 3.6V	SN74VHC7245		TUSOP16	Texas Instruments	SN74VHC7245DGWR	Yes	Yes
V2	1	OSC, CRYSTAL CLOCK, 5MΩ, 3.3V, 10 TO 3.6V, 8-PIN, 3.3V TO 5.5V, 1.8V TO 3.6V	27MHz			Akyosha	NC2380270000C0200	Yes	Yes
V3	1	CRYSTAL, ULTRA MINIATURE CERAMIC, 27MHz	27MHz			Abracon Corp.	ABM2-27.000MA-2-S-1	Yes	Yes