



Bill of Materials for the AR0230ATSC00XUEAH3-GEVB Evaluation Board

Designator	Quantity	Description	Value	Tolerance	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C9	1	CAP, CERAMIC, 1uF, 25V, X7R, 10%, 0805	1uF	10%	805	Murata	GCM21BR71E105KA56L	Yes	Yes
C34 C35 C36 C37 C39 C40 C50 C52 C55 C57 C59 C61 C70 C90 C91 C94 C100 C143 C144	19	CAP, TANTALUM CHIP, STD, 10uF, 10V, 10%, 3216	10uF	10%	3216-18	AVX	TAJA106K010R	Yes	Yes
C42 C102 C103 C104 C105 C106 C107 C116 C117 C118 C119 C120 C121 C124 C127 C130 C136 C137 C138 C139 C142 C148	22	CAP, CERAMIC, 10nF, 10V, X7R, 10%, 0201	10nF	10%	201	Murata	GRM033R71A103KA01D	Yes	Yes
C43 C44 C48 C49 C51 C53 C54 C56 C58 C60 C62 C63 C64 C71 C95 C96 C97 C98 C99 C101 C110 C111 C112 C113 C114 C115 C123 C126 C129 C132 C133 C134 C135 C141 C145 C146 C147 C149	38	CAP, CERAMIC, 100nF, 10V, X5R, 20%, 0201	100nF	20%	201	Panasonic	ECZEB1A104M	Yes	Yes
C52 C93 C108 C109 C122 C125 C128 C131 C140	9	CAP, TANTALUM CHIP, LOW ESR, 10uF, 10V, 10%, 3216	10uF	10%	3216-18	AVX	TPSA106K010R0900	Yes	Yes
D1	1	DIODE, LED, CHIP, GRN, CLEAR LENS, 2.0V, 20mA, SMD, 0603	GRN		603	Lite-On	LTST-C190GKGT	Yes	Yes
J1	1	CONN, SOCKET, HIGH SPEED, 2x26, 52 SIG PINS, 0.635MM PITCH, ALGNMNT PINS, 1 GND BUS PIN, LIGHT GOLD PLTG, RETENTION PINS	CON52-2x26-I (QFS)			Samtec	QFS-026-04-25-L-D-A-RT1	Yes	Yes
L9	1	IND, FERRITE CHIP, 220 OHM AT 100MHz, 0.1 OHM DC, 0603	1.4A		603	Murata	BLM18PG2215N1D	Yes	Yes
P3 P4 P5 P6 P14 P30	6	CONN, HEADER, VERTICAL, 1x2, 2 PIN, 2MM PITCH, THRU-HOLE	HDR2-1x2-P			3M	951102-8622-AR	Yes	Yes
P16 P18 P19 P28	4	CONN, HEADER, VERTICAL, 1x3, 3 PIN, 2MM PITCH, THRU-HOLE	HDR3-1x3-P			3M	951103-8622-AR	Yes	Yes
P24	1	CONN, HEADER, VERTICAL, 2x3, 6 PIN, 2MM PITCH, THRU-HOLE	HDR6-2x3-P			3M	951206-8622-AR	Yes	Yes
P27	1	CONN, HEADER, VERTICAL, 2x2, 4 PIN, 2MM PITCH, THRU-HOLE	HDR4-2x2-P			3M	951204-8622-AR	Yes	Yes
P29	1	CONN, HEADER, VERTICAL, 1x4, 4 PIN, 2MM PITCH, THRU-HOLE	HDR4-1x4-P			3M	951104-8622-AR	Yes	Yes
RP1 RP2 RP3 RP4	4	RESISTOR, CHIP ARRAY, ISOLATED, 4 RES, 8 TERMINALS, 22 OHM, 0.063W, 5%, 0402 ARRAY	22	5%	0402 X 4	Panasonic	EXB28V220IX	Yes	Yes
R2 R3 R9 R32 R45 R46 R47 R49	8	RESISTOR, THICK FILM CHIP, SMD, 10K, 0.063W, 5%, 0402	10K	5%	402	Panasonic	ERJ2GE1103X	Yes	Yes
R11 R27 R28	3	RESISTOR, THICK FILM CHIP, SMD, 33 OHM, 0.063W, 5%, 0402	33	5%	402	Panasonic	ERJ2GEJ330X	Yes	Yes
R23	1	RESISTOR, THICK FILM CHIP, SMD, 560 OHM, 0.063W, 5%, 0402	560	5%	402	Panasonic	ERJ2GEJ561X	Yes	Yes
R25	1	RESISTOR, POTENTIOMETER, TOP ADJ, 50K, 0.5W, 10%, SMD, 2.77" L x .264" W x .192" H	50K	5%	277x264x192	Bourns	3361P-1-503GLF	Yes	Yes
R26	1	RESISTOR, THICK FILM CHIP, SMD, 20K, 0.1W, 5%, 0603	20K	5%	603	Panasonic	ERJ3GEY1203V	Yes	Yes
R34 R35 R48	3	RESISTOR, THICK FILM CHIP, SMD, 0 OHM JUMPER, 0.063W, 5%, 0402	0	5%	402	Panasonic	ERJ2GE0R00X	Yes	Yes
SW1	1	SWITCH, PUSH BUTTON, SEALED TACTILE, MOM, 2 PIN, SPST-NO, 0.05A @ 12VDC, SMD	P8-SPST			C&K Components	PT5635L255MTRLF5	Yes	Yes
TP6	1	CONN, TERMINAL, TEST POINT COMPACT, .015 THICK, SMT	TSPPT-5016			Keystone Electronics	5016	Yes	Yes
U1	1	IC, VOLTAGE REGULATOR, POSITIVE, VLDO, ADJ, 100mA, 0.2 TO 9.5V OUTPUT, MSOP8	LT3020EMS8-ADJ		MSOP8	Linear Technology	LT3020EMS8PBF	Yes	Yes
U2 U3	2	IC, BUFFER, SINGLE SCHMITT-TRIGGER, 9mA, 0.8V TO 2.7V, SOT23-5	SN74AUC1G17		SOT23-5	Texas Instruments	SN74AUC1G170BVR	Yes	Yes
U4	1	IC, SENSOR, ACTIVE-PIXEL DIGITAL IMAGE, CMOS, A0230, C25C DEMO HDB0, iBGAB0 (10x10 mm Body Size)	AR0230_DEMO3_iBGA80		iBGAB0	Aptina Imaging	AR0230_iBgab0	No	Yes
U5	1	IC, AND GATE, SINGLE, 2 INPUT POSITIVE, SGL, SC70-5	SN74AUC1G08		SC70-5	Texas Instruments	SN74AUC1G08DCKR	Yes	Yes
U6	1	IC, SUPERVISOR, MICROPROCESSOR POWER SUPPLY, 2.93V, ACTIVE LOW RESET, SOT143-4	CAT811		SOT143-4	ON Semiconductor	CAT811STBI	No	Yes
U8	1	IC, SERIAL EEPROM, 12C, 64Kbit, 2.5V, 1MHz, -40C ~ 85C, SO8	24FC64-I/SN		SO8	Microchip	24FC64-I/SN	Yes	Yes
Y1	1	OSC, CRYSTAL CLOCK, SMD, CMOS, 2.25V TO 3.63V, 4mA, 27.0000MHz, 2.5MM x 2.0MM	27MHz			Kyocera	KC2520827.0000C2GE00	Yes	Yes