

Bill of Materials for the AR0135 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
C14 C15 C42 C43 C44 C48 C49 C51 C53 C54 C56 C58 C60 C62 C63 C64 C71 C95 C96 C97 C98 C99 C106 C107 C108 C109 C110 C117 C120 C123 C124 C128 C129	33	CAP, CERAMIC, 100nF, 10V, X5R, 20%, 0201	100nF	20%	201	Panasonic	ECJ2EB1A104M	Yes	Yes
C34 C35 C36 C37	18	CAP, TANTALUM CHIP, STD, 10uF,	10uF	10%	3216-18	AVX	TAJA106K010R	Yes	Yes
C92 C93 C116	6	CAP, TANTALUM CHIP, LOW ESR,	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-C190KGKT	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-J (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	BLM18PG221SN1D	Yes	Yes
P3 P14 P28	3	CONN, HEADER, VERTICAL, 1x2, 2 PIN, 2MM PITCH, THRU-HOLE	HDR2-1x2-P	-	-	3M	951102-8622-AR	Yes	Yes
P4 P5 P6 P8 P16 P18 P19	7	CONN, HEADER, VERTICAL, 1x3, 3 PIN, 2MM PITCH, THRU-HOLE	HDR3-1x3-P	-	-	3M	951103-8622-AR	Yes	Yes
P7	1	CONN, HEADER, VERTICAL, 1x4, 4 PIN, 2MM PITCH, THRU-HOLE	HDR4-1x4-P	-	-	3M	951104-8622-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
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	EXB28V220JX	Yes	Yes
R2 R3 R5 R9 R32 R45 R46 R47	8	RESISTOR, THICK FILM CHIP, SMD, 10K, 0.063W, 5%, 0402	10K	5%	402	Panasonic	ERJ2GEJ103X	Yes	Yes
R7	1	RESISTOR, THICK FILM CHIP, SMD, 9 OHM JUMPER, 0.1W, 5%, 0603	0	5%	603	Panasonic	ERJ3GEY0R00V	Yes	Yes
R23	1	RESISTOR, THICK FILM CHIP, SMD, 560 OHM, 0.063W, 5%, 0402	560	5%	402	Panasonic	ERJ2GEJ561X	Yes	Yes
R25 R26	2	RESISTOR, THICK FILM CHIP, SMD, 20K, 0.1W, 5%, 0603	20K	5%	603	Panasonic	ERJ3GEYJ203V	Yes	Yes
R27 R28 R29	3	RESISTOR, THICK FILM CHIP, SMD, 33 OHM, 0.063W, 5%, 0402	33	5%	402	Panasonic	ERJ2GEJ330X	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
SKT1	1	MODULE, SOCKET, ASSY OF SATBG-001223-01 AND LATBG-001224-01, BGA64 PIN, 1mm PITCH, W/4 MTG HOLES, 2 ALGNMNT PEG HOLES	SKT-1223-1224_BGA64_NOLTC H	-	-	Antares (IDI)	SKT-1223-1224_BGA64	Yes	Yes
SW1	1	SWITCH, PUSH-BUTTON, SEALED TACTILE, MOM, 2 PIN, SPST-NO, 0.05A @ 12VDC, SMD	PB-SPST	-	SMD	C&K Components	PTS635SL25SMTRFLFS	Yes	Yes
TP6 TP7	2	CONN, TERMINAL, TEST POINT COMPACT, 015 THICK, SMT	TSTPT-5016	-	-	Keystone Electronics	5016	Yes	Yes
U1	1	IC, VOLTAGE REGULATOR, POSITIVE, VLDO, ADJ, 100mA, 0.2 TO 0.9V OUTPUT, MSOP8	LT3020EMS8-ADJ	-	MSOP8	Linear Technology	LT3020EMS8#PBF	Yes	Yes
U2 U3	2	IC, BUFFER, SINGLE SCHMITT-TRIGGER, 9mA, 0.8V TO 2.7V, SOT23-5	SN74AUC1G17	-	SOT23-5	Texas Instruments	SN74AUC1G17DBVR	Yes	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, I2C, 64Kbit, 2.5V, 1MHz, 40°C - 85°C, SO8	24FC64-I/SN	-	SO8	Microchip	24FC64-I/SN	Yes	Yes
U9	1	OSC, CRYSTAL CLOCK, SMD, CMOS, 2.25V TO 3.63V, 4mA, 27,000MHz, 2.5MM x 2.0MM	27MHz	-	2.5mm x 2.0mm	Kyocera	KC2520B27.0000C2GE00	Yes	Yes
U10	1	IC, SENSOR, ACTIVE-PIXEL DIGITAL IMAGE, CMOS, C24J, AR0135AT, IBS963, COLOUR	AR0135	-	IBGA63	Aptina Imaging / Micron	AR0135AT6C00XPEA0	Yes	Yes