



Bill of Materials for the AR0144 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 C50 C52 C55 C57 C59 C61 C70 C141 C142 C143 C144	15	CAP, TANTALUM CHIP, STD, 10uF, 10V, 10%, 3216	10uF	10%	3216-18	AVX	TAJA106K010R	Yes	Yes
C42 C43 C44 C48	39	CAP, CERAMIC, 100nF, 10V, X5R, 20%, 0201	100nF	20%	201	Panasonic	ECJZEB1A104M	Yes	Yes
C102 C103 C120	7	CAP, TANTALUM CHIP, LOW ESR, 10uF,	10uF		3216-18	AVX	TPSA106K010R0900	Yes	Yes
C112 C113 C114 C115 C116 C117 C118 C119 C122 C129 C130 C131 C132 C133 C149 C150 C151 C152 C153 C154 C157	21	CAP, CERAMIC, 10nF, 10V, X7R, 10%, 0201	10nF	10%	201	Murata	GRM033R71A103KA01D	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
P3 P16 P19 P44	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
P40 P42 P43 P45 P46	5	CONN, HEADER, VERTICAL, 1x2, 2 PIN, 2MM PITCH, THRU-HOLE	HDR2-1x2-P	-	-	3M	951102-8622-AR	Yes	Yes
P41	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	EXB28V220JX	Yes	Yes
R7	1	RESISTOR, THICK FILM CHIP, SMD, 0 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
R27 R28 R29	3	RESISTOR, THICK FILM CHIP, SMD, 33 OHM, 0.063W, 5%, 0402	33	5%	402	Panasonic	ERJ2GEJ330X	Yes	Yes
R32 R45 R46 R47 R86 R88 R89 R90	8	RESISTOR, THICK FILM CHIP, SMD, 10K, 0.063W, 5%, 0402	10K	5%	402	Panasonic	ERJ2GEJ103X	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, TACTILE, MOM, 2 PIN, SPST, NO, 0.05A @ 24VDC, SMD	PB-SPST	-	SMD	TE Connectivity	147873-2	Yes	Yes
TP6 TP7	2	CONN, TERMINAL, TEST POINT COMPACT, 015 THICK, SMT	TS1PT-5016	-	-	Keystone Electronics	5016	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, S08	24FC64-I/SN	-	S08	Microchip	24FC64-I/SN	Yes	Yes
U9	1	IC, SENSOR, ACTIVE-PIXEL DIGITAL IMAGE, CMOS, C24M, DEMO HDBD, AR0144, CSP69	AR0144-DEMO_CSP69	-	CSP69	ON Semiconductor	AR0144-CSP69	No	Yes
Y1	1	OSC, CRYSTAL CLOCK, SMD, CMOS, 2.25V TO 3.63V, 4mA, 27.0000MHz, 2.5MM x 2.0MM	27MHz	-	2.5mm x 2.0mm	Kyocera	KC2520B27.0000C2GE00	Yes	Yes