



Bill of Materials for the ONA10IVGEVB Evaluation Board

Designator	Quantity	Description	Value	Footprint	Manufacturer	Manufacturer Part Number	Substitution Allowed	Lead Free
C1	1	CAP TANT 22UF 50V 10% 2924	22uF	2924	AVX Corporation	TAJV226K050RNJ	Yes	Yes
C2,C3,C7,C8,C11	5	CAP CER 1UF 50V X7R 0603	1uF	0603	Taiyo Yuden	UMK107AB7105KA-T	Yes	Yes
C4,C5	2	CAP CER 0.1UF 50V X5R 0402	0.1uF	0402	Murata Electronics North America	GRM155R61H104KE19D	Yes	Yes
C6,C9,C11	3	CAP CER 0.1UF 25V X5R 0402	0.1uF	0402	Samsung Electro-Mechanics	CL05A104KA5NNNC	Yes	Yes
C14	1	CAP CER 4.7UF 6.3V X7S 0603	4.7uF	0603	TDK Corporation	C1608X750J475K080AC	Yes	Yes
C15,C17,C32	3	CAP CER 10UF 6.3V X7R 0805	10uF	0805	Samsung Electro-Mechanics	CL21B106KQNNNE	Yes	Yes
C18,C21,C22,C2	14	CAP CER 0.1UF 6.3V X7R 0402	0.1uF	0402	Samsung Electro-Mechanics	CL05B104KQ5NNNC	Yes	Yes
C19,C20,C28,C2	4	CAP CER 12PF 50V C0G/NPO 0402	12pF	0402	Johanson Tech	500R075120GV4T	Yes	Yes
R1,R2,R7,R8,R9	21	RES SMD 0 OHM JUMPER 1/16W	0 OHM	0402	Yageo	RC0402JR-070RL	Yes	Yes
R3,R4,R23	3	RES SMD 3.65K OHM 1% 1/10W	3.65K OHM	0402	Panasonic Electronic Components	ERJ-2RKF3651X	Yes	Yes
R5,R6,R16,R17	8	RES SMD 10K OHM 1% 1/16W	10K OHM	0402	Samsung Electro-Mechanics	RC1005F103CS	Yes	Yes
R19	1	RES SMD 590 OHM 1% 1/10W 0402	590 OHM	0402	Panasonic Electronic Components	ERJ-2RKF5900X	Yes	Yes
R20,R30	2	RES SMD 330 OHM 5% 1/16W	330 OHM	0402	Yageo	RC0402JR-07330RL	Yes	Yes
R21,R22,R28	3	RES SMD 100 OHM 1% 1/10W	100 OHM	0402	Panasonic Electronic Components	ERJ-2RKF1000X	Yes	Yes
R27	1	RES SMD 4.7K OHM 1% 1/10W	4.7K OHM	0402	Panasonic Electronic Components	ERJ-2RKF4701X	Yes	Yes
R29	1	RES SMD 10 OHM 1% 1/16W 0402	10 OHM	0402	Bourns Inc.	CR0402-FX-10R0GLF	Yes	Yes
R38,R39,R40,R	5	RES SMD 1K OHM 0.1% 1/16W	1K OHM	0402	Yageo	AT0402BRD071KL	Yes	Yes
R43	1	RES SMD 100K OHM 1% 1/16W	100K OHM	0402	Yageo	RC0402FR-07100KL	Yes	Yes
FB1,FB2	2	RES SMD 0 OHM 1/4W 0604 WIDE	0 OHM	0604	Vishay Dale	RCL04060000Z0EA	Yes	Yes
D1,D2	2	LED GREEN CLEAR 0603 SMD	-	0603	Lite-On	LTST-C190KGKT	Yes	Yes
U2	1	ESD Suppressors / TVS Diodes RCLAMP3654PA3LINES+G 36V SLP	-	SLP1616P6	Semtech	RCLAMP3654PATCT	Yes	Yes
U3	1	LDO Voltage Regulators 500mA	-	WLCS-4	ON Semiconductor / Fairchild	FAN25800AUC33X	No	Yes
U4	1	LDO Voltage Regulators 100 mA CMOS Dropout	-	SOT-23-5	ON Semiconductor / Fairchild	FAN2500SX	No	Yes
U5	1	Programmable 3-PLL VCXO Clock	-	TSSOP-16	Texas Instruments	CDCEL925PW	Yes	Yes
U6, U9	2	Buffers & Line Drivers 1-Bit Translator Unidirectional	-	SC70-5	ON Semiconductor / Fairchild	FXLP34P5X	No	Yes
U7	1	32-bit Microcontrollers - MCU 256KB Flash 64KB RAM 40MHz, 10-bit ADC	-	SSOP-28	Microchip Technology	PIC32MX270F256B-I/SS	Yes	Yes
U8	1	TRANSLATOR 4BIT DUAL 12-UMLP	-	UMLP-12	ON Semiconductor	FXMA2104UMX	No	Yes
P1	1	CONN FEMALE 20POS DL .1" R/A GOLD	PPPC102LJBN-RC	PPPC102LJBN-RC	Sullins Connector Solutions	PPPC102LJBN-RC	Yes	Yes
P2, DVDD_SEL	4	CONN HEADER 3POS .100" SNGL GOLD	4-103239-0-03	4-103239-0-03	Würth Electronics, Inc.	61300311121	Yes	Yes
P3	1	CONN HEADER 3POS .156 R/A TIN	0026605030	0026605030	Molex, LLC	0026605030	Yes	Yes
P4	1	Test Jack, 10 A, 1.94 mm, 250 Vrms, Red, 571 Series	-	-	DELTRON COMPONENTS	571-0500-01	Yes	Yes
P5	1	Test Jack, 10 A, 1.94 mm, 250 Vrms, Black, 571 Series	-	-	DELTRON COMPONENTS	571-0100-01	Yes	Yes
P6	1	CONN USB MICRO B RECPT SMT R/A	-	-	Amphenol FCI	10118194-0001LF	Yes	Yes
Y1	1	CRYSTAL 12.0000MHZ 10PF SMD	12 MHZ	-	TXC Technologies	7M-12.000MEEQ-T	Yes	Yes
Y2	1	CRYSTAL 27.0000MHZ 10PF SMD	27 MHZ	-	TXC Technologies	7M-27.000MEEQ-T	Yes	Yes
SW1,SW2	2	SWITCH TACTILE SPST-NO 0.05A 12V	-	-	C&K	PTS645SK43SMTR92 LFS	Yes	Yes
H1,H2	2	CONN HEADER 2POS .100" SNGL GOLD	-	-	Würth Electronics, Inc.	61300211121	Yes	Yes
VSNS+	1	TEST POINT PC MULTI PURPOSE RED	RED	-	Keystone Electronics	5010	Yes	Yes
VSNS-	1	TEST POINT PC MULTI PURPOSE BLK	BLACK	-	Keystone Electronics	5011	Yes	Yes
GND1, GND2, GND3, GND4	4	TEST POINT PC MINI .040"D GREEN	GREEN (mini)	-	Keystone Electronics	5116	Yes	Yes
CKI, DATAI, DATAO, FRCK, INT_N, MCK, SCL, SDA, SD_N, GNDS	10	TEST POINT PC MINI .040"D BLACK	BLACK (mini)	-	Keystone Electronics	5001	Yes	Yes
VREF, VREG, PVDDS	3	TEST POINT PC MINI .040"D RED	RED (mini)	-	Keystone Electronics	5000	Yes	Yes
C12,C13		CAP CER 56PF 50V C0G/NPO 0402	DNP	0402	AVX Corporation	04025A560JAT2A	Yes	Yes
C16		CAP CER 10UF 6.3V X5R 0805	10 uF	0805	Yageo	CC0805KX5R5BB106	Yes	Yes
C31		CAP CER 1UF 6.3V X7R 0603	1 uF	0603	Murata Electronics North America	GRM188R70J105KA01D	Yes	Yes

1V8,3V3,AN9,D M,DP,RPA4,RP B2,RPB3,VBUS _MC		TEST POINT PC MINI .040"D BLACK	-	-	Keystone Electronics	5001	Yes	Yes
P7		CONN HEADER BRKWAY 6POS SGL .100			TE Connectivity AMP Connectors	5-146280-6	Yes	Yes
R14, R15		RES SMD 0 OHM JUMPER 1/16W 0402	0 OHM	0402	Yageo	RC0402JR-070RL	Yes	Yes
U1	1	Audio Amp, Class-D 16W w/Digital Input & Speaker Sense	-	WLCSP-4	ON Semiconductor / Fairchild	ONA10IVUCX	No	Yes