

Bill of Materials : EVAL-AD4170-4ARDZ

Qty	DESCRIPTION	VALUE	LOCATION	MFG	MFG_PN
1	CONN-PCB THERMOCOUPLE MINIATURE SIZE, CALIBRATION TYPE U, WITH TRANSISTOR RETAINER CLIP, 1X M025043	PCC-SMP-U-50-R-ROHS	A1	OMEGA ENGINEERING INC.	PCC-SMP-U-50-R-ROHS
15	CAP CER 0.1uF 25V 10% X7R 0402	0.1uF	C4,C7,C8,C10,C22,C24,C33,C37,C77,C79,C81,C83,C85,C88,C89	AVX CORPORATION	04023C104KAT2A
14	CAP CER 1uF 16V 10% X7R 0603 AEC-Q200	1uF	C5,C9,C12,C13,C23,C25,C73,C78,C80,C82,C84,C86,C87,C90	MURATA	GCM188R71C105KA64D
4	CAP CER 1uF 10V 10% X7S 0402	1uF	C15,C20,C26,C30	TDK	C1005X7S1A105K050BC
1	CAP CER 22uF 6.3V 20% X5R 0603 LOW ESR	22uF	C16	TDK	C1608X5R0J226M080AC
1	NRND - CAP CER 2.2uF 6.3V 10% X5R 0402 LOW ESR	2.2uF	C17	TDK	C1005X5R0J225K050BC
2	CAP CER 22NF 25V 5% X7R 0603	22NF	C18,C19	AVX CORPORATION	06033C223JAT2A
2	CAP CER 8pF 16V 0.5pF C0G 0402	8pF	C2,C3	AVX CORPORATION	0402YA8R0DAT2A
4	CAP CER 10uF 6.3V 20% X6S 0402	10uF	C21,C28,C38,C39	MURATA	GRM155C80J106ME11D
3	CAP CER 0.01uF 25V 10% X8R 0402	0.01uF	C27,C91,C92	TDK	C1005X8R1E103K050BA
5	CAP CER 4.7uF 6.3V 10% X5R 0402 LOW ESR	4.7uF	C29,C31,C32,C35,C36	TDK	C1005X5R0J475K050BC
2	CAP CER 10uF 6.3V 20% X5R 0402	10uF	C34,C40	SAMSUNG	CL05A106MQ5NUNC
6	CAP CER 2.2NF 50V 5% X7R 0402	2.2NF	C48,C50,C51,C53,C54,C56	AVX CORPORATION	04025C222JAT2A
3	CAP CER 4.7NF 16V 10% X7R 0402	4.7NF	C49,C52,C55	AVX CORPORATION	0402YC472KAT2A
6	CAP CER 820pF 50V 5% C0G 0402	820pF	C59,C60,C61,C67,C68,C69	MURATA	GRM1555C1H821JA01D
4	CAP CER 100pF 50V 1% C0G 0402 AEC-Q200	100pF	C62,C64,C70,C72	MURATA	GCM1555C1H101FA16D
1	CAP CER 10NF 16V 5% X7R 0402	10NF	C75	AVX CORPORATION	0402YC103JAT2A
1	CAP CER 0.1uF 16V 10% X7R 0402 AEC-Q200	0.1uF	C76	MURATA	GCM155R71C104KA55D
2	CAP CER 4.7uF 16V 10% X6S 0603	4.7uF	C93,C96	MURATA	GRM188C81C475KE11D
2	CAP CER 0.1uF 10V 10% X7R 0603	0.1uF	C94,C95	KEMET	C0603C104K8RACTU
3	LED SMD 0603 RED	TLMS1100-GS08	DS1,DS2,DS3	VISHAY	TLMS1100-GS08
1	MINIATURE FERRITE CHIP BEADS	1K	E1	TE CONNECTIVITY LTD	BMB2A1000LN2
1	CONN-PCB 10POS, TERMINAL BLOCK, 2.54MM PITCH, 3.5MM SOLDER TAIL, 125VAC, 6A, 20-30AWG	OSTVN10A150	J1	ON-SHORE TECHNOLOGY	OSTVN10A150
2	CONN-PCB 8POS TERMINAL BLOCK SINGLE ROW ST, 2.54MM PITCH, 3.5MM SOLDER TAIL	1725711	J2,J3	PHOENIX CONTACT	1725711
1	CONN-PCB TERM BLOCK 2POS	1725656	J4	PHOENIX CONTACT	1725656
1	CONN-PCB 7POS TERM BLOCK 2.54MM PITCH, 3.5MM SOLDER TAIL	1725708	J5	PHOENIX CONTACT	1725708
1	IND POWER SHIELDED WIREWOUND 10UH 20% 1MHZ 1A 0.346OHM 1212 AEC-Q200	10UH	L1	COILCRAFT INC.	EPL3015-103MLC
16	CONN-PCB HEADER 1ROW 2WAY	M20-9990246	LK1,LK2,LK3,LK6,LK8,LK9,LK19,LK21,LK39,LK40,LK41,LK42,LK43,LK44,LK45,LK46	HARWIN	M20-9990246
21	CONN-PCB 3POS MALE HDR UNSHROUDED SINGLE ROW, 2.54MM PITCH, 3MM SOLDER TAIL	M20-9990345	LK4,LK5,LK7,LK10,LK11,LK12,LK13,LK20,LK22,LK23,LK24,LK25,LK26,LK31,LK32,LK33,LK34,LK35,LK36,LK37,LK38	HARWIN	M20-9990345
2	CONN-PCB 8POS MALE HDR UNSHROUDED 0.635MM SQ POST DOUBLE ROW 5.84MM MATING POST, 2.54MM SOLDER TAIL, 2.54MM PITCH	TSW-104-07-G-D	LKVOCM34,LKVOCM78	SAMTEC INC.	TSW-104-07-G-D
1	CONN-PCB RCPT 25MIL SQ POST 2.54MM PITCH	SSQ-106-03-G-S	P1	SAMTEC	SSQ-106-03-G-S
2	CONN-PCB RCPT 25MIL SQ POST 2.54MM P	SSQ-108-03-G-S	P2,P5	SAMTEC	SSQ-108-03-G-S
1	CONN-PCB RCPT 25MIL SQ POST 2.54MM PITCH	SSQ-110-03-G-S	P4	SAMTEC	SSQ-110-03-G-S
1	CONN-PCB HDR 12P DUAL ST	TSW-106-07-G-D	P7	SAMTEC	TSW-106-07-G-D
2	P-CH 60V MOSFET	TP0610K-T1-E3	Q1,Q2	VISHAY	TP0610K-T1-E3
2	TRAN P-CHANNEL TRENCH MOSFET, 0.210A	BSH111BKR	Q3,Q4	NEXPERIA	BSH111BKR
26	RES SMD 0 Ohm JUMPER 1/10W 0402 AEC-Q200	0	R1,R4,R5,R6,R7,R8,R9,R10,R11,R15,R16,R17,R18,R19,R20,R21,R22,R23,R37,R52,R62,R72,R73,R75,R77,R78	PANASONIC	ERJ-2GE0R00X

4	RES SMD 0 Ohm 1/10W 0805	0	R94,R99,R102,R105	MULTICOMP (SPC)	MC01W08050R
5	RES SMD 0 Ohm JUMPER 1/10W 0603 AEC-Q200 PRECISION POWER	0	R24,R27,R40,R41,R110	VISHAY	CRCW06030000Z0EA
6	RES SMD 1MEG Ohm 1% 1/10W 0402 AEC-Q200	1MEG	R13,R14,R34,R49,R54,R55	PANASONIC	ERJ-2RKF1004X
1	RES SMD TEMP SENSOR 1K AT 0 DEG C, 1206	1K	R2	IST	P1K0.1206.2P.B
8	RES SMD 453 Ohm 0.1% 1/16W 0402 AEC-Q200 HIGH RELIABILITY	453	R28,R29,R30,R33,R43,R44,R45,R48	PANASONIC	ERA-2AEB4530X
1	RES SMD 5.11K Ohm 0.1% 1/10W 0603 AEC-Q200 HIGH RELIABILITY	5.11K	R3	PANASONIC	ERA-3ARB5111V
4	RES SMD 200 Ohm 0.1% 1/16W 0402 AEC-Q200 SULFUR RESISTANT	200	R31,R32,R46,R47	SUSUMU CO, LTD	RG1005P-201-B-T5
4	RES SMD 82.5 Ohm 0.1% 1/10W 0603 AEC-Q200 HIGH RELIABILITY	82.5	R35,R36,R50,R51	PANASONIC	ERA-3AEB82R5V
6	RES SMD 5.1 OHM 1% 1/10W 0603 AEC-Q200	5.1	R56,R57,R58,R59,R60,R61	ROHM	KTR03EZPF5R10
3	RES SMD 100K Ohm 1% 1/16W 0603	100K	R64,R66,R68	MULTICOMP (SPC)	MC 0.063W 0603 1% 100K
3	RES SMD 10K Ohm 5% 1/16W 0402 AEC-Q200	10K	R69,R70,R71	VISHAY	CRCW040210K0JNED
6	USE E007502 ROHS COMPLIANT EQUIVALENT, RES SMD 0 OHM 0603 AEC-Q200	0	R81,R83,R86,R88,R90,R92	VISHAY	CRCW0603000ZRT1
9	CONN-PCB SMB JACK ST	1-1337482-0	SMB1,SMB2,SMB3,SMB4,SMB5,SMB6,SMB7,SMB8,SMB9	TE CONNECTIVITY LTD	1-1337482-0
2	SWITCH MINIATURE SLIDE, DP3T	OS203012MU5QP1	SW1,SW2	C&K COMPONENTS	OS203012MU5QP1
1	IC-ADI 24-BIT, DC TO 50KHZ INPUT BW SIGMA DELTA 4 INPUT CHANNEL WITH INTEGRATED PGA BUFFERS, PRELIM	AD4170	U1	ANALOG DEVICES	AD4170
1	IC-ADI LOW NOISE, HIGH FREQUENCY MEMS ACCELEROMETER, PRELIM	ADXL1002BCPZ	U10	ANALOG DEVICES	ADXL1002BCPZ
1	IC 32KBIT SERIAL EEPROM	24AA32A-I/SN	U11	MICROCHIP TECHNOLOGY	24AA32A-I/SN
1	IC-LIN 0.3A, LOW NOISE, MICROPOWER LDO REGULATORS, 5VOUT	LT1962EMS8-5#PBF	U12	ANALOG DEVICES	LT1962EMS8-5#PBF
1	IC-ADI ULTRA LOW NOISE, HIGH ACCURACY VREF	ADR4525BRZ	U13	ADI	ADR4525BRZ
1	IC-ADI 15V, 0.2A SYNCHRONOUS BUCK-BOOST DC/DC CONVERTER WITH 1.3UA QUIESCIENT CURRENT	LTC3129EUD-1#PBF	U2	ANALOG DEVICES	LTC3129EUD-1#PBF
1	IC-LIN 0.3A, LOW NOISE, MICROPOWER LDO REGULATORS, 2.5VOUT	LT1962EMS8-2.5#PBF	U3	LINEAR TECHNOLOGY	LT1962EMS8-2.5#PBF
1	IC-ADI 0.1A REGULATED CHARGE-PUMP INVERTER	LTC1983ES6-3#TRMPBF	U4	ANALOG DEVICES	LTC1983ES6-3#TRMPBF
1	IC-ADI LOW NOISE, LINEAR REGULATOR	ADP7182AUJZ-2.5	U5	ANALOG DEVICES	ADP7182AUJZ-2.5-R7
1	IC-LIN 0.3A, LOW NOISE, MICROPOWER LDO REGULATORS, 3.3VOUT	LT1962EMS8-3.3#PBF	U6	LINEAR TECHNOLOGY	LT1962EMS8-3.3#PBF
1	IC-ADI 0.25PPM NOISE, LOW DRIFT PRECISION REFERENCES, 2.5VOUT	LTC6655LNBHMS8-2.5#PBF	U7	ANALOG DEVICES	LTC6655LNBHMS8-2.5#PBF
2	IC-ADI HIGH-SPEED, FULLY DIFFERENTIAL ADC DRIVER	ADA4945-1ACPZ-R7	U8,U9	ANALOG DEVICES	ADA4945-1ACPZ-R7
1	IC CRYSTAL SMD	16MEGHz	Y1	NDK	NX5032GA 16MHZ AT-W

DNI COMPONENTS

Qty	DESCRIPTION	VALUE	LOCATION	MFG	MFG_PN
3	CAP CER 0.1uF 25V 10% X7R 0402	0.1uF	C1,C11,C14	AVX CORPORATION	04023C104KAT2A
5	CAP CER 4.7NF 16V 10% X7R 0402	4.7NF	C41,C43,C44,C46,C47	AVX CORPORATION	0402YC472KAT2A
2	CAP CER 47NF 100V 10% X7R 0603 AEC-Q200	47NF	C42,C45	KEMET	C0603C473K1RACAUTO
1	CAP CER 1uF 16V 10% X7R 0603 AEC-Q200	1uF	C6	MURATA	GCM188R71C105KA64D
2	CAP CER 100pF 50V 1% C0G 0402 AEC-Q200	100pF	C63,C71	MURATA	GCM1555C1H101FA16D
1	CAP CER 1NF 25V 10% X7R 0402	1NF	C74	AVX CORPORATION	04023C102KAT2A
5	CONN-PCB SINGLE ROW HDR 2MM PITCH	TMM-102-01-G-S	LK14,LK15,LK16,LK17,LK18	SAMTEC	TMM-102-01-G-S
1	CONN-PCB RCPT 25MIL SQ POST DUAL ROW 2.54MM PITCH	SSQ-103-03-G-D	P3	SAMTEC	SSQ-103-03-G-D
1	CONN-PCB 5POS FEMALE HDR/SKT SINGLE ROW ST, 2.54MM PITCH, 10MM SOLDER TAIL	SSQ-105-03-G-S	P6	SAMTEC INC.	SSQ-105-03-G-S
2	RES SMD 910 Ohm 0.1% 1/8W 0805 AEC-Q200 HIGH RELIABILITY	910	R100,R107	PANASONIC	ERA-6AEB911V
2	RES SMD 43 Ohm 5% 1/8W 0805 AEC-Q200	43	R101,R106	PANASONIC	ERJ-6GEYJ430V
1	RES SMD 91 Ohm 0.1% 1/8W 0805 AEC-Q200 HIGH RELIABILITY	91	R103	PANASONIC	ERA-6AEB910V
1	RES SMD 1.2K OHM 0.1% 1/4W 0805 AEC-Q200	1.2K	R104	PANASONIC	ERJ-PB6B1201V
1	RES SMD 1K Ohm 1% 1/8W 0805 AEC-Q200	1K	R108	PANASONIC	ERJ-6ENF1001V
1	RES SMD 100 OHM 1% 1/10W 0603	100	R109	YAGEO	RC0603FR-07100RL

5	RES SMD 0 Ohm JUMPER 1/10W 0603 AEC-Q200 PRECISION POWER	0	R25,R26,R39,R42,R111	VISHAY	CRCW06030000Z0EA
1	RES SMD 2K Ohm 5% 1/16W 0402	2K	R12	YAGEO	RC0402JR-072KL
2	RES SMD 16K Ohm 1% 1/16W 0402 AEC-Q200	16K	R38,R53	VISHAY	CRCW040216K0FKED
9	USE E007502 ROHS COMPLIANT EQUIVALENT, RES SMD 0 OHM 0603 AEC-Q200	0	R63,R65,R67,R82,R84,R87,R89,R91,R93	VISHAY	CRCW06030000ZRT1
5	RES SMD 0 Ohm JUMPER 1/10W 0402 AEC-Q200	0	R74,R76,R79,R80,R85	PANASONIC	ERJ-2GE0R00X
1	RES SMD 12K Ohm 5% 1/8W 0805 AEC-Q200	12K	R95	PANASONIC	ERJ-6GEYJ123V
1	RES SMD 2.4K Ohm 5% 1/8W 0805 AEC-Q200	2.4K	R96	PANASONIC	ERJ-6GEYJ242V
1	RES SMD 130 Ohm 1% 1/8W 0805 AEC-Q200	130	R97	PANASONIC	ERJ-6ENF1300V
1	RES SMD 3.9K Ohm 0.1% 1/8W 0805 AEC-Q200 HIGH RELIABILITY	3.9K	R98	PANASONIC	ERA-6AEB392V