

Bill of Materials

ADM00599 Evaluation Board

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Quantity	Designator	Description_	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
7	C1, C4, C5, C16, C24, C25, C49	CAP CER 10uF 16V 10% X7R SMD 1206	TDK	C3216X7R1C106K	Digi-Key	445-4042-1-ND
1	C2	CAP CER 1800pF 50V 10% X7R SMD 0805	AVX Corporation	08055C182KAT2A	Digi-Key	478-1374-1-ND
9	C3, C11, C19, C20, C52, C53, C54, C55, C56	CAP CER 1uF 10V 10% X7R SMD 0603	Taiyo Yuden	LMK107B7105KA-T	Digi-Key	587-1242-1-ND
7	C6, C8, C12, C18, C21, C50, C57	CAP CER 0.1uF 10V 10% X7R SMD 0603	KEMET	C0603C104K8RACTU	Digi-Key	399-1095-1-ND
2	C7, C10	CAP ALU 470uF 50V 20% RAD P5D12.5H20	United Chemi-Con	EKZE500ELL471MK20S	Digi-Key	565-1712-ND
6	C9, C31, C33, C37, C38, C39	CAP CER 0.1uF 50V 10% X7R SMD 0603	Murata	GRM188R71H104KA93D	Digi-Key	490-1519-1-ND
6	C13, C14, C15, C27, C29, C48	CAP CER 1uF 50V 10% X7R SMD 1210	Taiyo Yuden	UMK325B7105KH-T	Digi-Key	587-1366-1-ND
6	C17, C22, C23, C30, C34, C35	CAP CER 0.1uF 100V 10% X7R SMD 0805	AVX	08051C104K4T2A	Digi-Key	478-4525-1-ND
2	C26, C51	CAP CER 0.1uF 25V 10% X7R SMD 0603	Murata	GRM188R71E104KA01D	Digi-Key	490-1524-1-ND
3	C28, C32, C59	CAP CER 10uF 50V 20% X7R SMD 1210	TDK Corporation	C3225X7R1H106M250AC	Digi-Key	445-14933-1-ND
4	C36, C41, C47, C58	CAP CER 330pF 50V 5% C0G SMD 0603	KEMET	C0603C331J5GACTU	Digi-Key	399-1068-1-ND
6	C40, C42, C43, C44, C45, C46	CAP CER 100pF 50V 10% X7R SMD 0603	Vishay Vitramon	VJ0603Y101KXACW1BC	Digi-Key	720-1373-2-ND
1	D1	DIO TVS SMAJ5.0A-E3/61 5V 400W DO-214AC_SMA	Vishay Semiconductor Diodes Division	SMAJ5.0A-E3/61	Digi-Key	SMAJ5.0A-E3/61GICT-ND
4	D2, D3, D4, D5	DIO SCTKY SS24-L 550mV 2A 40V SMD DO-214AC_SMA	Micro Commercial Co	SS24-LTP	Digi-Key	SS24-LTPMSCT-ND
3	D6, D8, D10	DIO TVS SMF33A-E3-08 33V 200W SMD SOD-123FL	Vishay Semiconductor Diodes Division	SMF33A-E3-08	Digi-Key	SMF33A-E3-08CT-ND
1	D7	DIO TVS SMAJ24A 24V 400W DO-214AC_SMA	Littelfuse Inc	SMAJ24A	Digi-Key	SMAJ24ALFCT-ND
1	D9	DIO TVS PTVS10VS1UR 10V 400W SMD SOD123	Nexperia USA Inc.	1727-5361-1-ND	Digi-Key	1727-5361-1-ND
1	D11	DIO LED RED 1.95V 20mA 220mcd Clear SMD 0805	Kingbright	APT2012SURCK	Digi-Key	754-1133-1-ND
9	D12, D13, D14, D15, D16, D17, D18, D19, D20	DIO LED GREEN 2.1V 30mA Clear SMD 0805	Kingbright Corp	APT2012CGCK	Digi-Key	754-1127-1-ND
1	J1	CON HDR-2.54 Male 1x6 Tin 5.84MH TH VERT	Sullins	PEC06SAAN	Digi-Key	S1012E-06-ND
1	J2	CON MODULAR RJ25 TH R/A	TE Connectivity	5555165-1	Digi-Key	A31422-ND
1	J3	CON TERMINAL 5mm 1x2 Female 12-26AWG 18A TH R/A	Phoenix Contact	1935161	Digi-Key	277-1667-ND

1	J4	CON TERMINAL 5mm 1x3 Female 12-28AWG 16A TH R/A	On Shore Technology Inc	OSTVI030152	Digi-Key	ED2729-ND
1	J5	CON TERMINAL 2.54mm 1x5 Female 20-30AWG 6A TH R/A	Phoenix Contact	1725685	Digi-Key	277-1276-ND
3	JP1, JP2, JP3	CON HDR-2.54 Male 2x3 Tin 5.84MH TH VERT	FCI	67996-406HLF	Digi-Key	609-3218-ND
2	JP4, JP5	CON HDR-2.54 Male 1x3 Tin 5.84MH TH VERT	Samtec	TSW-103-07-T-S	Digi-Key	SAM1035-03-ND
1	JP6	CON HDR-2.54 Male 1x2 Gold 5.84MH TH VERT	FCI	77311-118-02LF	Digi-Key	609-4434-ND
1	L1	INDUCTOR 3.3uH 1.95A 30% SMD L4.8W4.8H2	Würth Electronics Inc	744042003	Digi-Key	732-1019-1-ND
7	Q1, Q2, Q3, Q4, Q5, Q6, Q7	TRANS FET N-CH FDD10AN06A0 60V 50A DPAK-3	Fairchild Semiconductor	FDD10AN06A0	Digi-Key	FDD10AN06A0TR-ND
1	R1	RES TKF 1R 1% 1/10W SMD 0603	Panasonic	ERJ-3RQF1R0V	Digi-Key	P1.0AJCT-ND
1	R2	RES TKF 18k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF1802V	Digi-Key	P18.0KHCT-ND
1	R3	RES TKF 11k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF1102V	Digi-Key	P11.0KHCT-ND
1	R4	RES TKF 4.99R 1% 1/8W SMD 0805	Yageo	RC0805FR-074R99L	Digi-Key	311-4.99CRCT-ND
3	R5, R8, R10	RES TKF 4.02R 1% 1/10W SMD 0603	Yageo	RC0603FR-074R02L	Digi-Key	311-4.02HRTR-ND
3	R6, R88, R95	RES TKF 2k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF2001V	Digi-Key	P2.00KHTR-ND
17	R7, R28, R30, R37, R47, R48, R51, R60, R63, R66, R69, R70, R71, R75, R76, R77, R78	RES TKF 47k 1% 1/10W SMD 0603	Yageo	RC0603FR-0747K4L	Digi-Key	311-47.0KHRCT-ND
4	R9, R23, R24, R25	RES TKF 22k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF2202V	Digi-Key	P22.0KHCT-ND
1	R11	RES TKF 10k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF1002V	Digi-Key	P10.0KHCT-ND
6	R12, R15, R18, R22, R31, R42	RES TKF 47R 1% 1/8W SMD 0805	Yageo	RC0805FR-0747R4L	Digi-Key	311-47.0CRCT-ND
6	R13, R16, R19, R27, R35, R46	RES TKF 0.1R 1% 1/8W SMD 0805	Panasonic	ERJ-L06KF10CV	Digi-Key	P100LLCT-ND
3	R14, R17, R20	RES TKF 470k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF4703V	Digi-Key	P470KHCT-ND
3	R21, R33, R41	RES TKF 2.49k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF2491V	Digi-Key	P2.49KHCT-ND
3	R26, R34, R45	RES TKF 120k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF1203V	Digi-Key	P120KHCT-ND
3	R29, R32, R36	RES TKF 300R 1% 1/10W SMD 0603	Yageo	RC0603FR-07300RL	Digi-Key	311-300HRCT-ND
3	R38, R39, R40	RES TKF 2.4k 1% 1/10W SMD 0603	Yageo	RC0603FR-072K4L	Digi-Key	311-2.40KHRCT-ND
14	R43, R50, R54, R55, R65, R68, R82, R83, R84, R85, R86, R87, R89, R91	RES TKF 1k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF1001V	Digi-Key	P1.00KHCT-ND
7	R44, R49, R53, R56, R64, R67, R90	RES TKF 3.74k 1% 1/10W SMD 0603	Yageo	RC0603FR-073K74L	Digi-Key	311-3.74KHRCT-ND
3	R52, R61, R62	RES SHUNT 0.01R 1% 5W SMD L11.35W6.35H4.57	TT Electronics/IRC	OARSXPR010FLF	Digi-Key	989-1018-1-ND
3	R57, R58, R59	RES TKF 4.7k 1% 1/10W SMD 0603	ROHM	MCR03EZPFX4701	Digi-Key	RHM4.70KHCT-ND
3	R72, R73, R74	RES TKF 90.9k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF9092V	Digi-Key	P90.9KHTR-ND
2	R79, R93	RES TKF 24.9k 1% 1/10W SMD 0603	Yageo	RC0603FR-0724K9L	Digi-Key	311-24.9KHRCT-ND
2	R80, R97	RES TKF 100R 1% 1/10W SMD 0603	ROHM	MCR03EZPFX1000	Digi-Key	RHM100HCT-ND
1	R81	RES TKF 30k 1% 1/10W SMD 0603	Stackpole Electronics Inc	RMCF0603FT30K0	Digi-Key	RMCF0603FT30K0TR-ND
1	R92	RES VARIABLE CC 10K 20% 150mW TH 296U	CTS Corporation	296UD103B1N	Digi-Key	CT2265-ND
1	R94	RES TKF 18.7k 1% 1/10W SMD 0603	Yageo	RC0603FR-0718K7L	Digi-Key	311-18.7KHRCT-ND
1	R96	RES TKF 7.5k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF7501V	Digi-Key	P7.50KHCT-ND
4	SW1, SW2, SW3, SW4	SWITCH TACT SPST 12V 50mA TL3301NF160QG/TR SMD	E-Switch	TL3301NF260QG/TR	Digi-Key	EG1868CT-ND
10	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10	CON TP LOOP Silver 3.4x5 SMD	Keystone	5016	Digi-Key	36-5016CT-ND
Microchip Parts listed below						
1	U2	MCHP MCU 16-Bit 70MIPS 256kb 32kb DSPIC33EP256MC504-I/PT TQFP-44	Microchip Technology	DSPIC33EP256MC504-I/PT	Digi-Key	DSPIC33EP256MC504-I/PT-ND
1	U3	MCHP ANALOG MOTOR DRIVER MCP8026-115E/PT TQFP-48	Microchip Technology	MCP8026-115E/PT	Digi-Key	MCP8026-115E/PT-ND
1	U4	MCHP ANALOG OPAMP 4-Ch 10MHz MCP6024-E/ST TSSOP-14	Microchip	MCP6024-E/ST	Microchip	MCP6024-E/ST

Mechanical Parts to be added in the package

6	JP101, JP102, JP103, JP104, JP105, JP106	MECH HW JUMPER 2.54mm 1x2 Phosphor Bronze w/ Handle	JAMECO VALUEPRO	2012JH-R	Jameco	152671
1	LABEL1	LABEL, NEED HELP WITH ASSY/SERIAL			Dev Tools	
4	PAD111, PAD112, PAD113, PAD114	MECH HW RUBBER PAD CYLINDRICAL D7.9 H5.3 BLACK	3M	SJ61A11	Digi-Key	SJ5747-0-ND