

Bill of Materials

PAC1934 4 Ch DC Power Monitor Eval Board

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 Part Number: ADM00805
 Revision: 2
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Quantity	Designator	Description_	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
2	C9, C11	CAP CER 2.2uF 10V 10% X7S SMD 0402	TDK Corporation	C1005X7S1A225K050BC	Digi-Key	445-9097-1-ND
2	C10, C12	CAP CER 0.1uF 16V 10% X7R SMD 0402	Murata	GRM155R71C104KA88D	Digi-Key	490-3261-2-ND
7	C13, C14, C16, C18, C19, C20, C21	CAP CER 0.1uF 16V 10% X7R SMD 0603	Würth Electronics Inc	885012206046	Digi-Key	732-7965-1-ND
1	C15	CAP CER 0.47uF 6.3V 10% X5R SMD 0603	Murata	GRM188R60J474KA01D	Digi-Key	490-1548-1-ND
1	C17	CAP CER 4.7uF 10V 10% X5R SMD 0805	Panasonic	ECJ-GVB1A475M	Digi-Key	PCC2407CT-ND
1	C22	CAP CER 2.2uF 16V 10% X7R SMD 1206	Panasonic	ECJ-3YB1C225K	Digi-Key	PCC1931CT-ND
1	FB1	FERRITE 2A 220R SMD 0805	Murata Electronics North America	BLM21PG221SN1D	Digi-Key	490-1054-1-ND
4	J1, J2, J3, J4	CON TERMINAL 5mm 1x3 Female 12-30AWG 16A TH R/A	Würth Electronics Inc.	691137710003	Digi-Key	732-10956-ND
8	J5, J22, J23, J24, J25, J28, J29, J30	CON HDR-2.54 Male 1x2 Gold 5.84MH TH VERT	FCI	77311-118-02LF	Digi-Key	609-4434-ND
12	J6, J7, J8, J9, J10, J11, J12, J13, J14, J15, J16, J17	CON HDR-2.54 Male 1x3 Gold 5.84MH TH VERT	FCI	68000-103HLF	Digi-Key	609-3461-ND
0	J18, J19, J20, J21	CON HDR-2.54 Female 1x4 Gold TH VERT	Samtec	SSW-104-01-G-S	Digi-Key	SAM1209-04-ND
1	J26	CON USB2.0 Micro-B Female SMD R/A	FCI	10118193-0001LF	Digi-Key	609-4616-1-ND
1	J27	CON HDR-2.54 Male 1x6 Gold 5.84MH TH VERT	FCI	68001-106HLF	Digi-Key	609-3272-ND
3	LD1, LD2, LD3	DIO LED GREEN 3.2V 20mA 430mcd Clear SMD 0603	Würth Electronics Inc	150060GS75000	Digi-Key	732-4971-1-ND
1	Q1	TRANS FET N-CH ZXMN2A01F 20V 1.9A 625mW SOT-23-3	Diodes Incorporated	ZXMN2A01FTA	Digi-Key	ZXMN2A01FCT-ND
4	R1, R2, R3, R4	RES SHUNT MF 0.004R 1% 2W 2512	Stackpole Electronics Inc	CSNL2512FT4L00	Digi-Key	CSNL2512FT4L00CT-ND
4	R5, R6, R7, R8	RES TKF 1R 1% 1/4W SMD 1206	Panasonic	ERJ-8RQF1R0V	Digi-Key	P1.0RCT-ND
8	R9, R10, R11, R12, R13, R14, R15, R16	RES TKF 0R 1/10W SMD 0603	Panasonic	ERJ-3GSY0R00V	Digi-Key	P0.0GTR-ND
5	R17, R18, R27, R28, R39	RES TKF 4.7k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF4701V	Digi-Key	P4.70KHCT-ND
2	R19, R24	RES TKF 10R 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF10R0V	Digi-Key	P10.0HTR-ND
3	R20, R23, R38	RES TKF 10k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF1002V	Digi-Key	P10.0KHCT-ND

1	R22	RES TKF 499R 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF4990V	Digi-Key	P499HCT-ND
3	R25, R26, R34	RES TKF 8.2k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF8201V	Digi-Key	P8.20KHCT-ND
1	R29	RES TKF 24.9R 1% 1/10W SMD 0603	Vishay Dale	CRCW060324R9FKEA	Digi-Key	541-24.9HCT-ND
1	R30	RES TKF 100R 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF1000V	Digi-Key	P100HCT-ND
1	R31	RES TKF 1k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF1001V	Digi-Key	P1.00KHCT-ND
1	R32	RES TKF 3k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF3001V	Digi-Key	P3.00KHCT-ND
1	R33	RES TKF 1.5k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF1501V	Digi-Key	P1.50KHTR-ND
1	R35	RES TKF 12.1k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF1212V	Digi-Key	P12.1KHCT-ND
1	R36	RES TKF 1M 5% 1/10W SMD 0603	Panasonic	ERJ-3GEYJ105V	Digi-Key	P1.0MGTR-ND
1	R37	RES TKF 5.6k 1% 1/10W SMD 0603	Yageo	RC0603FR-075K6L	Digi-Key	311-5.60KHRCT-ND
1	SW1	SWITCH SLIDE DPDT 6V 300mA JS202011SCQN SMD	C&K	JS202011SCQN	Digi-Key	401-2002-1-ND
1	U3	IC INTERFACE FXMA2102L8X 2-Bit Voltage Translator/Buffer Micropak-8	Fairchild Semiconductor	FXMA2102L8X	Digi-Key	FXMA2102L8XCT-ND

Microchip Parts listed below

1	U1	MCHP ANALOG POWER CURRENT SENSE MONITOR PAC1934-I/J6CX WLCSP-16	Microchip Technology	PAC1934-I/J6CX	Microchip	PAC1934-I/J6CX
1	U2	MCHP INTERFACE USB I2C UART MCP2221A-I/ST TSSOP-14	Microchip Technology	MCP2221A-I/ST	Microchip Technology	MCP2221A-I/ST
1	U4	MCHP ANALOG OPAMP 2-Ch 1.2MHz MCP6072-E/SN SOIC-8	Microchip Technology	MCP6072-E/SN	Digi-Key	MCP6072-E/SN-ND

Mechanical Parts to be added in the package

1	CBL1	MECH HW CABLE USB Male-A to Male Micro- B Clear 4'	DongGuan ZhanXin	A006ZX027	DongGuan ZhanXin	A006ZX027
18	JP1, JP2, JP3, JP4, JP5, JP6, JP7, JP8, JP9, JP10, JP11, JP12, JP13, JP14, JP15, JP16, JP17, JP18	MECH HW JUMPER 2.54mm 1x2 Handle Gold	TE Connectivity	881545-2	Digi-Key	A26242-ND
4	PAD1, PAD2, PAD3, PAD4	MECH HW RUBBER PAD CYLINDRICAL D7.9 H5.3 BLACK	3M	SJ61A11	Digi-Key	SJ5747-0-ND

Do Not Populate Parts listed below

0	C1, C2, C3, C4, C5, C6, C7, C8	CAP CER 10000pF 50V 20% X7R SMD 0603	AVX Corporation	06035C103KAT2A	Digi-Key	478-1227-1-ND
0	R21	RES TKF 10k 1% 1/10W SMD 0603	Panasonic	ERJ-3EKF1002V	Digi-Key	P10.0KHCT-ND
0	TP10	MISC, TEST POINT MULTI PURPOSE MINI RED	Keystone	5000	Digi-Key	36-5000-ND
0	TP11	MISC, TEST POINT MULTI PURPOSE MINI BLACK	Keystone	5001	Digi-Key	36-5001-ND
0	TP12	MISC, TEST POINT MULTI PURPOSE MINI WHITE	Keystone	5002	Digi-Key	36-5002-ND