

Bill of Materials

MIC7401 Evaluation Board

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Revision: 1
Engineer: Catalin Bibirica
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Quantity	Designator	Description_	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
1	C1	CAP CER 2.2uF 10V 10% X7S SMD 0402	TDK Corporation	C1005X7S1A225K050BC	Digi-Key	445-9097-1-ND
7	C2, C4, C6, C7, C9, C11, C13	CAP CER 10uF 25V 20% X5R SMD 0603	TDK Corporation	C1608X5R1E106M080AC	Farnell	2521968
5	C3, C8, C10, C12, C14	CAP CER 22uF 10V 20% X5R SMD 0603	TDK Corporation	C1608X5R1A226M080AC	Farnell	2525091
1	C5	CAP CER 1uF 16V 10% X5R SMD 0603	AVX	0603YD105KAT2A	Digi-Key	478-1249-1-ND
1	C15	CAP TANT 150uF 10V 10% 100mOhm SMD D	AVX Corporation	TPSD157K010R0100	Digi-Key	478-1781-1-ND
1	C16	CAP CER 0.47uF 6.3V 10% X5R SMD 0603	Murata	GRM188R60J474KA01D	Digi-Key	490-1548-1-ND
1	C17	CAP CER 100pF 50V 5% NP0 SMD 0603	Cal-Chip	GMC10CG101J50NTLF	Cal-Chip	GMC10CG101J50NTLF
2	D1, D2	DIO SCTKY PMEG4005AEA,115 470mV 500mA 40V SOD-323	Nexperia USA Inc.	PMEG4005AEA.115	Digi-Key	568-6521-1-ND
1	J1	CON HDR-2.54 Male 1x4 Gold 5.84MH TH R/A	Samtec Inc	TSW-104-08-S-S-RA	Digi-Key	SAM1047-04-ND
1	J2	CON USB2.0 MICRO-B FEMALE SMD R/A	FCI	10118192-0001LF	Digi-Key	609-4613-1-ND
1	J3	CON HDR-2.54 Male 2x6 Gold 5.84MH TH VERT	Samtec	TSW-106-07-G-D	Digi-Key	SAM1028-06-ND
3	J4, J16, J17	CON HDR-2.54 Male 1x3 Tin 5.84MH TH VERT	Samtec	TSW-103-07-T-S	Digi-Key	SAM1035-03-ND
6	J5, J6, J7, J8, J9, J10	CON HDR-2.54 Male 2x2 Gold 5.84MH TH VERT	Würth Electronics Inc	61300421121	Digi-Key	732-5294-ND
6	L1, L2, L3, L4, L5, L6	INDUCTOR 1uH 3.4A 20% SMD 2520	TDK Corporation	VLS252012HBX-1R0M-1	Digi-Key	445-173025-2-ND
2	R1, R2	RES TKF 100k 1% 1/10W SMD 0402	Panasonic	ERJ-2RKF1003X	Digi-Key	P100KLCT-ND

2	R3, R5	RES TKF 4.7k 5% 1/10W SMD 0402	Panasonic	ERJ-2GEJ472X	Digi-Key	P4.7KJCT-ND
2	R4, R6	RES TKF 470k 1% 1/16W SMD 0402	Rohm Semiconductor	MCR01MRTF4703	Digi-Key	RHM470KCDCT-ND
1	R7	RES TKF 0R SMD 0402	Panasonic	ERJ-2GE0R00X	Digi-Key	P0.0JCT-ND
12	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12	CON TP PIN Tin TH	Harwin	H2121-01	Digi-Key	952-1440-ND
1	TP13	CON TP TAB Silver Mini 3.8x2.03 SMD	Keystone Electronics	5019	Digi-Key	36-5019CT-ND
Microchip Parts listed below						
1	U1	MCHP ANALOG SWITCHER Buck 0.3V to 6V MIC7401YFL QFN-36	Microchip	MIC7401YFL	Microchip	MIC7401YFL
1	U2	MCHP INTERFACE USB I2C UART MCP2221-I/ML QFN-16	Microchip Technology	MCP2221-I/ML	Digi-Key	MCP2221-I/ML-ND
Mechanical Parts to be added in the package						
1	JP1	MECH HW JUMPER 2.54mm 1x2	3M	969102-0000-DA	Digi-Key	3M9580-ND
1	LABEL1	LABEL, ASSY W/REV LEVEL (SMALL MODULES) PER MTS-0002			Dev Tools	
4	PAD1, PAD2, PAD3, PAD4	MECH HW RUBBER PAD CYLINDRICAL D7.9 H5.3 BLACK	3M	SJ61A11	Digi-Key	SJ5747-0-ND