

# Bill of Materials

# MIC7400 Evaluation Board

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

2	R1, R2	RES TKF 100k 1% 1/10W SMD 0402	<a href="#">Panasonic</a>	<a href="#">ERJ-2RKF1003X</a>	Digi-Key	<a href="#">P100KLCT-ND</a>
2	R3, R5	RES TKF 4.7k 5% 1/10W SMD 0402	<a href="#">Panasonic</a>	<a href="#">ERJ-2GEJ472X</a>	Digi-Key	<a href="#">P4.7KJCT-ND</a>
2	R4, R6	RES TKF 470k 1% 1/16W SMD 0402	<a href="#">Rohm Semiconductor</a>	<a href="#">MCR01MRTF4703</a>	Digi-Key	<a href="#">RHM470KCDCT-ND</a>
1	R7	RES TKF 0R SMD 0402	<a href="#">Panasonic</a>	<a href="#">ERJ-2GE0R00X</a>	Digi-Key	<a href="#">P0.0JCT-ND</a>
12	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12	CON TP PIN Tin TH	<a href="#">Harwin</a>	<a href="#">H2121-01</a>	Digi-Key	<a href="#">952-1440-ND</a>
1	TP13	CON TP TAB Silver Mini 3.8x2.03 SMD	<a href="#">Keystone Electronics</a>	<a href="#">5019</a>	Digi-Key	<a href="#">36-5019CT-ND</a>

#### Microchip Parts listed below

1	U1	MCHP ANALOG SWITCHER Buck Boost 1.05V to 12V MIC7400YFL-T5 QFN-36	<a href="#">Microchip Technology</a>	<a href="#">MIC7400YFL-T5</a>	Digi-Key	<a href="#">MIC7400YFL-T5-ND</a>
1	U2	MCHP INTERFACE USB I2C UART MCP2221-I/ML QFN-16	<a href="#">Microchip Technology</a>	<a href="#">MCP2221-I/ML</a>	Digi-Key	<a href="#">MCP2221-I/ML-ND</a>

#### Mechanical Parts to be added in the package

1	JP1	MECH HW JUMPER 2.54mm 1x2	<a href="#">3M</a>	<a href="#">969102-0000-DA</a>	Digi-Key	<a href="#">3M9580-ND</a>
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	<a href="#">3M</a>	<a href="#">SJ61A11</a>	Digi-Key	<a href="#">SJ5747-0-ND</a>