

# Bill of Materials

# MIC23650 6A synch buck regulator eval bd

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Quantity	Designator	Description_	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
1	C1	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>
2	C3, C6	CAP CER 0.1uF 35V 10% X7R SMD 0402	<a href="#">TDK Corporation</a>	<a href="#">CGA2B3X7R1V104K050BB</a>	Digi-Key	<a href="#">445-6901-1-ND</a>
2	C4, C5	CAP CER 47uF 16V 20% X5R SMD 1206	<a href="#">TDK Corporation</a>	<a href="#">C3216X5R1C476M160AB</a>	Digi-Key	<a href="#">445-6003-1-ND</a>
1	C8	CAP ALU 470uF 16V 20% RAD P3.5D8H11.5	<a href="#">Nichicon</a>	<a href="#">UVZ1C471MPD</a>	Digi-Key	<a href="#">493-1286-ND</a>
2	C9, C10	CAP CER 22uF 10V 20% X7S SMD 0805	<a href="#">TDK Corporation</a>	<a href="#">C2012X7S1A226M125AC</a>	Digi-Key	<a href="#">445-14560-1-ND</a>
4	J1, J3, J12, J13	CON HDR-2.54 Male 1x2 Gold 5.84MH TH VERT	<a href="#">FCI</a>	<a href="#">77311-118-02LF</a>	Digi-Key	<a href="#">609-4434-ND</a>
3	J2, J6, J7	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>
4	J4, J5, J15, J19	CON TP PIN Tin TH	<a href="#">Harwin</a>	<a href="#">H2121-01</a>	Digi-Key	<a href="#">952-1440-ND</a>
2	J14, J21	MISC, TEST POINT MULTI PURPOSE MINI RED	<a href="#">Keystone</a>	<a href="#">5000</a>	Digi-Key	<a href="#">36-5000-ND</a>
3	J17, J18, J20	MISC, TEST POINT MULTI PURPOSE MINI BLACK	<a href="#">Keystone</a>	<a href="#">5001</a>	Digi-Key	<a href="#">36-5001-ND</a>
1	L1	INDUCTOR 470nH 12.3A 20% SMD L4.0W4.0H3.1	<a href="#">COILCRAFT.COM</a>	<a href="#">XEL4030-471</a>	COILCRAFT.COM	<a href="#">XEL4030-471</a>
1	R1	RES TKF 49.9R 1% 1/10W SMD 0603	<a href="#">Panasonic</a>	<a href="#">ERJ-3EKF49R9V</a>	Digi-Key	<a href="#">P49.9HCT-ND</a>
1	R3	RES TKF 1M 1% 1/10W SMD 0603	<a href="#">Panasonic</a>	<a href="#">ERJ-3EKF1004V</a>	Digi-Key	<a href="#">P1.00MHCT-ND</a>
1	R7	RES TKF 100k 1% 1/10W SMD 0603	<a href="#">TE Connectivity</a>	<a href="#">1622827-1</a>	Digi-Key	<a href="#">A106046CT-ND</a>
1	R12	RES TKF 10R 1% 1/10W SMD 0603	<a href="#">Panasonic</a>	<a href="#">ERJ-3EKF10R0V</a>	Digi-Key	<a href="#">P10.0HTR-ND</a>
<b>Microchip Parts listed below</b>						
1	U1	MCHP ANALOG SWITCHER Buck 2.4V to 5.5V MIC23650YFT FTQFN-16	<a href="#">Microchip Technology Inc</a>	<a href="#">MIC23650YFT</a>	Microchip Technology Inc	<a href="#">MIC23650YFT</a>
<b>Mechanical Parts to be added in the package</b>						
3	JP1, JP2, JP3	MECH HW JUMPER 2.54mm 1x2	<a href="#">3M</a>	<a href="#">969102-0000-DA</a>	Digi-Key	<a href="#">3M9580-ND</a>
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>
<b>Do Not Populate Parts listed below</b>						
0	J9	CON HDR-2.54 Male 1x2 Gold 5.84MH TH VERT	<a href="#">FCI</a>	<a href="#">77311-118-02LF</a>	Digi-Key	<a href="#">609-4434-ND</a>