

# Bill of Materials

# MIC2877 High Current Sync Boost Regulator

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 Board Number: 04-10654  
 Part Number: ADM00831  
 Revision: 2  
 Engineer: Victor Uzum  
 Drawn By: Victor Uzum



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Quantity	Designator	Description_	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
4	C1, C3A, C3B, C3C	CAP CER 22uF 10V 20% X5R SMD 0805	<a href="#">Taiyo Yuden</a>	<a href="#">LMK212BJ226MG-T</a>	Digi-Key	<a href="#">587-1958-1-ND</a>
1	C2	CAP CER 1uF 10V 10% X5R SMD 0603	<a href="#">Murata</a>	<a href="#">GRM188R61A105KA61D</a>	Digi-Key	<a href="#">490-1543-1-ND</a>
1	C3	CAP TANT 150uF 20% 10V SMD C	<a href="#">KEMET</a>	<a href="#">T520C157M010ATE055</a>	Farnell	<a href="#">2343637</a>
4	J1, J2, J3, J4	CON TP PIN Tin TH	<a href="#">Harwin</a>	<a href="#">H2121-01</a>	Digi-Key	<a href="#">952-1440-ND</a>
2	J5, J8	CON HDR-2.54 Male 1x1 Gold 5.97MH TH VERT	<a href="#">Nextron</a>	<a href="#">211-0111-0021-400</a>	Raynen	<a href="#">CONN00405E01M</a>
2	JP2, JP3	CON HDR-2.54 Male 1x2 Tin 6.10MH TH VERT	<a href="#">Molex Inc</a>	<a href="#">0022284020</a>	Digi-Key	<a href="#">WM50014-02-ND</a>
1	L1	INDUCTOR 1uH 11.1A 20% SMD L5.28W5.48H3.1	<a href="#">Coilcraft</a>	<a href="#">XAL5030-102MEC</a>	Mouser	<a href="#">994-XAL5030-102MEC</a>
1	R1	RES TKF 1M 5% 1/10W SMD 0603	<a href="#">Panasonic</a>	<a href="#">ERJ-3GEYJ105V</a>	Digi-Key	<a href="#">P1.0MGTR-ND</a>
1	R2	RES TF 910k 0.1% 1/16W SMD 0603	<a href="#">TE Connectivity Passive Product</a>	<a href="#">CPF0603B910KE1</a>	Digi-Key	<a href="#">A102324CT-ND</a>
1	R3	RES TF 200k 0.1% 1/10W SMD 0603	<a href="#">Panasonic Electronic Components</a>	<a href="#">ERA-3AEB204V</a>	Digi-Key	<a href="#">P200KDBCT-ND</a>
1	R4	RES TKF 10k 5% 1/10W SMD 0603	<a href="#">Panasonic</a>	<a href="#">ERJ-3GEYJ103V</a>	Digi-Key	<a href="#">P10KGCT-ND</a>
2	R5, R6	RES TKF 0R 1/10W SMD 0603	<a href="#">Panasonic</a>	<a href="#">ERJ-3GSY0R00V</a>	Digi-Key	<a href="#">P0.0GTR-ND</a>

### Microchip Parts listed below

1	U1	MCHP ANALOG SWITCHER Boost 3V to 5.5V MIC2877-AYFT-TR FTQFN-8	<a href="#">Microchip</a>	<a href="#">MIC2877-AYFT-TR</a>	Microchip	<a href="#">MIC2877-AYFT-TR</a>
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### Mechanical Parts to be added in the package

1	LABEL1	LABEL, ASSY W/REV LEVEL (SMALL MODULES) PER MTS-0002				
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>

### Do Not Populate Parts listed below

0	C4	CAP CER 3.6pF 50V 6.9% NP0 SMD 0402	<a href="#">Murata</a>	<a href="#">GRM1555C1H3R6CZ01D</a>	Digi-Key	<a href="#">490-1271-2-ND</a>
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