

# Bill of Materials

# MCP1665 12V Boost Converter Eval Bd

Document Number: 02-10713  
 Board Number: 04-10713  
 Part Number: ADM00865  
 Revision: 1  
 Engineer: Florin Bolea  
 Drawn By: Florin Bolea

Creation Date: 11:59:53 AM  
 Print Date: 5:29:16 PM



Quantity	Designator	Description_	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
2	C1, C11	CAP CER 10uF 16V 10% X7R SMD 1206	<a href="#">TDK</a>	<a href="#">C3216X7R1C106K</a>	Digi-Key	<a href="#">445-4042-1-ND</a>
1	C2	CAP CER 1uF 25V 10% X5R SMD 0805	<a href="#">Murata</a>	<a href="#">GRM216R61E105KA12D</a>	Digi-Key	<a href="#">490-1700-2-ND</a>
4	C4, C5, C7, C8	CAP CER 10uF 50V 20% X7R SMD 1210	<a href="#">TDK Corporation</a>	<a href="#">C3225X7R1H106M250AC</a>	Digi-Key	<a href="#">445-14933-1-ND</a>
1	C9	CAP ALU 470uF 16V 20% SMD F	<a href="#">Panasonic</a>	<a href="#">EEE-1CA471UP</a>	Digi-Key	<a href="#">PCE3892CT-ND</a>
1	D1	DIO SCTKY STPS2L40U 340mV 2A 40V DO-214AA_SMB	<a href="#">STMicroelectronics</a>	<a href="#">STPS2L40U</a>	Digi-Key	<a href="#">497-5574-1-ND</a>
2	J1, J2	CON TERMINAL 5mm 1x2 Female 12-26AWG 18A TH R/A	<a href="#">Phoenix Contact</a>	<a href="#">1935161</a>	Digi-Key	<a href="#">277-1667-ND</a>
1	J5	CON HDR-2.54 Male 1x3 Tin 6.75MH TH VERT	<a href="#">Molex Inc</a>	<a href="#">90120-0123</a>	Digi-Key	<a href="#">WM8073-ND</a>
1	L1	INDUCTOR 4.7uH 6.9A 30% SMD L10W10.2H4.8	<a href="#">Coilcraft</a>	<a href="#">MSS1048-472NL</a>	Coilcraft	<a href="#">MSS1048-472NL</a>
1	R1	RES TKF 180k 1% 1/10W SMD 0603	<a href="#">Yageo</a>	<a href="#">RC0603FR-07180KL</a>	Digi-Key	<a href="#">311-180KHRCT-ND</a>
1	R2	RES TKF 20k 1% 1/10W SMD 0603	<a href="#">Panasonic</a>	<a href="#">ERJ-3EKF2002V</a>	Digi-Key	<a href="#">P20.0KHCT-ND</a>
1	RT1	RES TKF 80.6k 1% 1/10W SMD 0603 AEC-Q200	<a href="#">Panasonic Electronic Components</a>	<a href="#">ERJ-3EKF8062V</a>	Digi-Key	<a href="#">P80.6KHCT-ND</a>
1	RT2	RES TKF 130k 1% 1/10W SMD 0603 AEC-Q200	<a href="#">Panasonic Electronic Components</a>	<a href="#">ERJ-3EKF1303V</a>	Digi-Key	<a href="#">P130KHCT-ND</a>
1	RT3	RES TKF 383k 1% 1/10W SMD 0603	<a href="#">Vishay / Dale</a>	<a href="#">CRCW0603383KFKTA</a>	Digikey	<a href="#">541-383KHCT-ND</a>
1	RT4	RES TKF 511k 1% 1/10W SMD 0603 AEC-Q200	<a href="#">Panasonic Electronic Components</a>	<a href="#">ERJ-3EKF5113V</a>	Digi-Key	<a href="#">P511KHCT-ND</a>
1	SW1	SWITCH SLIDE SPDT 30V 0.1A SS12SDP2 TH	<a href="#">NKK Switches</a>	<a href="#">SS12SDP2</a>	Digi-Key	<a href="#">360-2133-ND</a>
<b>Microchip Parts listed below</b>						
1	U1	MCHP ANALOG BOOST CONVERTER 12V MCP1665T-E/MRA VQFN-10	<a href="#">Microchip Technology</a>	<a href="#">MCP1665T-E/MRA</a>	Microchip Tech	<a href="#">MCP1665T-E/MRA</a>

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

1	JP1	MECH HW JUMPER 2.54mm 1x2 w/ Handle	<a href="#">TE Connectivity AMP Connectors</a>	<a href="#">880584-4</a>	Digi-Key	<a href="#">A122487-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>

**Do Not Populate Parts listed below**

0	C3	CAP TANT 330UF 10V 20% 0.025Ohm SMD E	<a href="#">Panasonic Electronic Components</a>	<a href="#">10TPE330M</a>	Digi-Key	<a href="#">P16452CT-ND</a>
0	TP1, TP2, TP3, TP4	CON TP PIN Tin TH	<a href="#">Harwin</a>	<a href="#">H2121-01</a>	Digi-Key	<a href="#">952-1440-ND</a>