

# Bill of Materials MCP19035 Power Module 8A Evaluation Board

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 Part Number: ADM00987  
 Revision: 1  
 Engineer: Jennifer Hancock  
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Quantity	Designator	Description	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
2	C1, C2	CAP CER 4.7uF 35V 10% X7R SMD 0805	<a href="#">TDK Corporation</a>	<a href="#">C2012X7R1V475K125AE</a>	Digi-Key	<a href="#">445-172489-1-ND</a>
1	C3	CAP CER 5600pF 50V 10% X7R SMD 0402	<a href="#">Samsung Electro-Mechanics America, Inc</a>	<a href="#">CL05B562KB5NNNC</a>	Digi-Key	<a href="#">1276-1579-1-ND</a>
1	C4	CAP CER 0.33uF 16V 10% X7R SMD 0603	<a href="#">Murata</a>	<a href="#">GRM188R71C334KA01D</a>	Digi-Key	<a href="#">490-3294-1-ND</a>
1	C5	CAP CER 47pF 50V 5% NP0 SMD 0402	<a href="#">Murata</a>	<a href="#">GRM1555C1H470JA01D</a>	Digi-Key	<a href="#">490-5942-2-ND</a>
2	C6, C9	CAP CER 1uF 25V 10% X7R SMD 0603 AEC-Q200	<a href="#">Samsung Electro-Mechanics</a>	<a href="#">CL10B105KA8VPNC</a>	Digi-Key	<a href="#">1276-6617-1-ND</a>
2	C7, C8	CAP CER 22uF 10V 10% X7R SMD 1206 AEC-Q200	<a href="#">Taiyo Yuden</a>	<a href="#">LMJ316BB7226KLHT</a>	Digi-Key	<a href="#">587-4243-1-ND</a>
1	C10	CAP CER 680pF 50V 10% X7R SMD 0402	<a href="#">WUERTH ELEKTRONIK</a>	<a href="#">885012205060</a>	Digi-Key	<a href="#">732-7555-1-ND</a>
1	J1	CON HDR-2 Male 2x5 Gold TH RA	<a href="#">Samtec</a>	<a href="#">TMM-105-01-L-D-RA</a>	Farnell	<a href="#">1803656</a>
1	L1	INDUCTOR 2.2uH 17.8A 20% SMD L7.5W7.2D7	<a href="#">Coilcraft</a>	<a href="#">XAL7070-222MEC</a>	Mouser Electronics	<a href="#">994-XAL7070-222MEC</a>
2	R1, R6	RES TKF 100k 1% 1/10W SMD 0402	<a href="#">Panasonic</a>	<a href="#">ERJ-2RKF1003X</a>	Digi-Key	<a href="#">P100KLCT-ND</a>
1	R2	RES TKF 2.7k 1% 1/10W SMD 0402	<a href="#">Panasonic</a>	<a href="#">ERJ-2RKF2701X</a>	Digi-Key	<a href="#">P2.70KLTR-ND</a>
1	R3	RES TKF 20k 5% 1/10W SMD 0402	<a href="#">Panasonic Electronic Components</a>	<a href="#">ERJ-2GEJ203X</a>	Digi-Key	<a href="#">P20KJDKR-ND</a>
1	R5	RES TKF 750R 1/10W 1% SMD 0402	<a href="#">Panasonic Electronic Components</a>	<a href="#">ERJ-2RKF7500X</a>	Digi-Key	<a href="#">P750LCT-ND</a>
<b>Microchip Parts listed below</b>						
2	Q1, Q2	MCHP ANALOG MOSFET N-CH 25V 60A MCP87055T-U/LC PDFN-8	<a href="#">Microchip Technology</a>	<a href="#">MCP87055T-U/LC</a>	Digi-Key	<a href="#">MCP87055T-U/LCCT-ND</a>
1	U1	MCHP ANALOG PWM CONTROLLER 600kHz MCP19035-BAABE/MF DFN-10	<a href="#">Microchip</a>	<a href="#">MCP19035-BAABE/MF</a>	Digi-Key	<a href="#">MCP19035-BAABE/MF-ND</a>
<b>PCB</b>						
1	PCB1	Printed Circuit Board		<b>04-10880-R1</b>		
<b>Do Not Populate Parts listed below</b>						
0	R4	RES TKF 2.7k 1% 1/10W SMD 0402	<a href="#">Panasonic</a>	<a href="#">ERJ-2RKF2701X</a>	Digi-Key	<a href="#">P2.70KLTR-ND</a>