

# Bill of Materials

# MIC28517 Evaluation Board

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PCB Number: 04-10825-2

Part Number: ADM00995

Revision: 1.1

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Quantity	Designator	Description_	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
1	C1	CAP CER 4700pF 50V 10% X7R SMD 0603	<a href="#">KEMET</a>	<a href="#">C0603C472K5RACTU</a>	Digi-Key	<a href="#">399-1087-1-ND</a>
1	C3	CAP CER 0.010uF 25V 10% X7R SMD 0603	<a href="#">Yageo</a>	<a href="#">CC0603KRX7R8BB103</a>	Digi-Key	<a href="#">311-1360-1-ND</a>
2	C4, C8	CAP CER 2.2uF 16V 10% X5R SMD 0603	<a href="#">TDK</a>	<a href="#">C1608X5R1C225K</a>	Digi-Key	<a href="#">445-5157-1-ND</a>
1	C5	CAP CER 1uF 100V 10% X7S SMD 0805	<a href="#">TDK Corporation</a>	<a href="#">C2012X7S2A105K125AE</a>	Digi-Key	<a href="#">445-5205-1-ND</a>
3	C7, C10, C17	CAP CER 0.1uF 100V 10% X7R SMD 0603	<a href="#">Murata Electronics North</a>	<a href="#">GRM188R72A104KA35D</a>	Digi-Key	<a href="#">490-3285-1-ND</a>
1	C9	CAP CER 4.7uF 25V 10% X5R SMD 0805	<a href="#">Murata</a>	<a href="#">GRM21BR61E475KA12L</a>	Digi-Key	<a href="#">490-3335-1-ND</a>
3	C12, C13, C14	CAP CER 47uF 16V 20% X5R SMD 1210	<a href="#">Yageo</a>	<a href="#">CC1210MKX5R7BB476</a>	Digi-Key	<a href="#">311-2054-1-ND</a>
1	C15	CAP ALU 1000uF 16V 20% SMD G	<a href="#">Panasonic Electronic Cor</a>	<a href="#">16SVPF1000M</a>	Digi-Key	<a href="#">P16478CT-ND</a>
1	C16	CAP CER 0.1uF 16V 10% X7R SMD 0603	<a href="#">AVX</a>	<a href="#">0603YC104KAT2A</a>	Digi-Key	<a href="#">478-1239-1-ND</a>
4	C18, C19, C20, C21	CAP CER 2.2uF 100V 10% X7R SMD 1210	<a href="#">KEMET</a>	<a href="#">C1210C225K1RACTU</a>	Digi-Key	<a href="#">399-5511-1-ND</a>
1	C22	CAP ALU 100uF 100V 20% TH P5D12.5H20	<a href="#">United Chemi-Con</a>	<a href="#">EKZE101ELL101MK16S</a>	Digi-Key	<a href="#">565-1736-ND</a>
9	J1, J2, J3, J4, J7, J8, J9, J11, J12	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>
2	J5, J6	CON HDR-2.54 Male 1x3 Gold 5.84MH TH VERT	<a href="#">FCI</a>	<a href="#">68000-103HLF</a>	Digi-Key	<a href="#">609-3461-ND</a>
1	J10	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>
4	J13, J14, J15, J16	CON TERMINAL 15A Female 1x1 TH VERT	<a href="#">Keystone Electronics</a>	<a href="#">8195</a>	Digi-Key	<a href="#">36-8195-ND</a>

1	L1	INDUCTOR 6.8uH 21.5A 20% SMD L11.6W10.5H8.8	<a href="#">WUERTH ELEKTRONIK</a>	<a href="#">74439369068</a>	Digi-Key	<a href="#">732-10712-1-ND</a>
1	R1	RES TKF 100k 5% 1/10W SMD 0603 (Don't Use, Duplicate, Use RSMT0026)	<a href="#">Panasonic</a>	<a href="#">ERJ-3GEYJ104V</a>	Digi-Key	<a href="#">P100KGCT-ND</a>
1	R2	RES TKF 30k 1% 1/10W SMD 0603	<a href="#">Stackpole Electronics Inc</a>	<a href="#">RMCF0603FT30K0</a>	Digi-Key	<a href="#">RMCF0603FT30K0TR-ND</a>
4	R3, R4, R8, R10	RES TF 10k 1% 1/8W SMD 0603	<a href="#">Vishay Beyschlag</a>	<a href="#">MCT06030C1002FP500</a>	Digi-Key	<a href="#">MCT0603-10.0K-CFTR-ND</a>
1	R5	RES TKF 3.16k 1% 1/10W SMD 0603	<a href="#">Panasonic</a>	<a href="#">ERJ-3EKF3161V</a>	Digi-Key	<a href="#">P3.16KHTR-ND</a>
1	R6	RES TKF 2.2k 1% 1/10W SMD 0603	<a href="#">Panasonic</a>	<a href="#">ERJ-3EKF2201V</a>	Digi-Key	<a href="#">P2.20KHCT-ND</a>
1	R7	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	R9	RES TKF 2R 1% 1/4W SMD 0603	<a href="#">Vishay Dale</a>	<a href="#">CRCW06032R00FKEAH</a>	Digi-Key	<a href="#">541-2.00SCT-ND</a>
1	R11	RES TKF 2.21k 1% 1/10W SMD 0603	<a href="#">Panasonic</a>	<a href="#">ERJ-3EKF2211V</a>	Digi-Key	<a href="#">P2.21KHCT-ND</a>
1	R12	RES TKF 0R 1/10W SMD 0603	<a href="#">Panasonic</a>	<a href="#">ERJ-3GSY0R00V</a>	Digi-Key	<a href="#">P0.0GTR-ND</a>
2	R13, R14	RES TKF 1R 1% 1/10W SMD 0603	<a href="#">Yageo</a>	<a href="#">RC0603FR-071RL</a>	Digi-Key	<a href="#">311-1.00HRCT-ND</a>
1	R15	RES TKF 16.2k 1% 1/10W SMD 0603	<a href="#">Panasonic</a>	<a href="#">ERJ-3EKF1622V</a>	Digi-Key	<a href="#">P16.2KHCT-ND</a>
1	R17	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	R18	RES TKF 1.37k 1% 1/10W SMD 0603	<a href="#">Yageo</a>	<a href="#">RC0603FR-071K37L</a>	Digi-Key	<a href="#">311-1.37KHRCT-ND</a>
1	R19	RES TKF 536R 1% 1/10W SMD 0603	<a href="#">Yageo</a>	<a href="#">311-536HRCT-ND</a>	Digi-Key	<a href="#">311-536HRCT-ND</a>
1	R20	RES TKF 15R 1% 1/16W SMD 0603	<a href="#">Stackpole Electronics Inc</a>	<a href="#">RMCF0603FT15R0</a>	Digi-Key	<a href="#">RMCF0603FT15R0CT-ND</a>

#### Microchip Parts listed below

1	U1	MCHP ANALOG SWITCHER Buck 0.6V to 32V 8A MIC28517T-E/PHA VQFN-32	<a href="#">Microchip Technology</a>	<a href="#">MIC28517T-E/PHA</a>	Microchip Tech	<a href="#">MIC28517T-E/PHA</a>

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

1	HS1	MECH HW HEATSINK ADHESIVE TAPE L19W19H6.3	<a href="#">CTS Corporation</a>	<a href="#">APF19-19-06CB/A01</a>	Digi-Key	<a href="#">294-1146-ND</a>
1	LABEL1	LABEL, NEED HELP WITH ASSY/SERIAL				
4	SCR1, SCR2, SCR3, SCR4	MECH HW SCREW #6-32 x 1/4" PanHead PHIL Nylon	<a href="#">B&amp;F Fastener Supply</a>	<a href="#">NY PMS 632 0025 PH</a>	Digi-Key	<a href="#">H554-ND</a>
3	SH5, SH6, SH10	MECH HW JUMPER 2.54mm 1x2 Phosphor Bronze w/ Handle	<a href="#">JAMECO VALUEPRO</a>	<a href="#">2012JH-R</a>	Jameco	<a href="#">152671</a>
4	STANDOFF1, STANDOFF2, STANDOFF3, STANDOFF4	MECH HW STAND-OFF #6-32 x 3/8" F HEX NYLON	<a href="#">Keystone Electronics</a>	<a href="#">1903B</a>	Digi-Key	<a href="#">36-1903B-ND</a>

#### PCB

1	PCB1	Printed Circuit Board		<a href="#">04-10825-2-R1</a>		
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#### Do Not Populate Parts listed below

0	C2	CAP CER 10pF 50V 0.5pF COG SMD 0603	<a href="#">TDK</a>	<a href="#">C1608C0G1H100D</a>	Digi-Key	<a href="#">445-1269-1-ND</a>
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0	C11	CAP CER 1000pF 50V 20% X7R SMD 0603	<a href="#">Panasonic</a>	<a href="#">ECJ-1VB1H102K</a>	Digi-Key	<a href="#">PCC1772TR-ND</a>
0	R16	RES TKF 1R 1% 1/10W SMD 0603	<a href="#">Yageo</a>	<a href="#">RC0603FR-071RL</a>	Digi-Key	<a href="#">311-1.00HRCT-ND</a>

Approved	Notes	Description