

Bill of Materials

MCP9600 Evaluation Board

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Part Number: ADM00665
Revision: 1
Engineer: Ezana Haile
Drawn By: Ezana Haile
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Quantity	Designator	Description_	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
9	Alert 1, Alert 2, Alert 3, Alert 4, GND, GND, SCL, SDA, VDD	CON TP TAB Silver Mini 3.8x2.03 SMD	Keystone Electronics	5019	Digi-Key	5019KCT-ND
2	C1, C7	CAP CER 0.1uF 50V 10% X7R SMD 0805	Cal-Chip	GMC21X7R104K50NTLF	Cal-Chip	GMC21X7R104K50NTLF
1	C2	CAP CER 0.1uF 25V 20% Y5V SMD 0603	Cal-Chip	GMC10Y5V104Z25NTLF	Cal-Chip	GMC10Y5V104Z25NTLF
1	C3	CAP CER 0.47uF 16V 10% X7R SMD 0805	Panasonic	ECJ-2YB1C474K	Digi-Key	PCC1818CT-ND
2	C4, C5	CAP CER 10uF 6.3V 20% X5R SMD 0805	Taiyo Yuden	JMK212BJ106MG-T	Digi-Key	587-1943-1-ND
1	C6	CAP CER 1uF 16V 20% Y5V SMD 0805	AVX	0805YG105ZAT2A	AVX	0805YG105ZAT2A
2	FB1, FB2	FERRITE 800mA 0.15R SMD 0805	Laird	LI0805H151R-10	Digi-Key	240-2384-1-ND
1	J3	CON USB MINI-B Female SMD R/A	Hirose	UX60-MB-5ST	Digi-Key	H2959CT-ND
1	L1	INDUCTOR 10uH 100mA 20% SMD 0805	Murata	LQM21FN100M70L	Digi-Key	490-4029-1-ND
4	PAD1, PAD2, PAD3, PAD4	MECH HW RUBBER PAD SQUARE L12.1 W12.1 H3.1 BLACK	Hammond	1421T8BK	Farnell	1876524
2	R1, R2	RES TKF 4.99k 1% 1/8W SMD 0805	ROHM	MCR10EZHF4991	Digi-Key	RHM4.99KCCT-ND
2	R4, R5	RES TKF 10R 1% 1/8W SMD 0805	ROHM	MCR10EZHF10R0	Digi-Key	RHM10.0CCT-ND
1	R8	RES TF 100k 0.1% 1/8W SMD 0805	Panasonic Electronic Cor	ERA-6AEB104V	Digi-Key	P100KDACT-ND
1	TC1	MECH HW ADAPTER Thermocoupler TH R/A	Omega	PCC-SMP-K-100 NOTE 100 Pcs. Per Package PCC-SMP-K-100	Omega	PCC-SMP-K-100
1	X1	RESONATOR 12MHz 33pF SMD CSTCE-G	Murata	CSTCE12M0G55Z-R0	Digi-Key	490-1220-2-ND

Microchip Parts listed below

1	U2	MCP9600	Microchip Technology	MCP9600-I/MX	Microchip	MCP9600-I/MX
1	U3	MCHP MCU 8-BIT 40MHz 32K 1536B PIC18F2520-I/SO SOIC-28	Microchip Technology	PIC18F2520T-I/SO	Microchip	PIC18F2520T-I/SOCT-ND

Mechanical Parts to be added in the package						
1	CBL1	MECH HW CABLE USB-A Male to Mini USB-B Male 3ft Black	Qualtek	3021003-03	Digi-Key	Q362-ND
1	Plugs in TC1	Ready-Made Insulated Thermocouples with Kapton, PFA, Glass Braid Insulation and Molded Connectors	OMEGA	NOTE 5 Pcs. Per Package 5SRTC-TT-K-24-36	http://www.omega.com/pptst/PCC-OST-SMP.html	NOTE 5 Pcs. Per Package 5SRTC-TT-K-24-36
Do Not Populate Parts listed below						
1	J1	CON HDR-2.54 Male 1x6 Tin 5.84MH TH VERT	Sullins	PEC06SAAN	Digi-Key	S1012E-06-ND
2	R6, R7	RES TKF 100k 1/8W 1% SMD 0805	NIC Components	NRC10F1003TRF	NIC Component	NRC10F1003TRF
2	R9, R10	RES TKF 47.5k 1% 1/8W SMD 0805	Panasonic Electronic Cor	ERJ-6ENF4752V	Digi-Key	P47.5KCCT-ND
Approved	Notes					