

Bill of Materials

MCP1663 Evaluation Board

Document Number: **02-10412**

Board Number: **04-10412**

Part Number: **ADM00664**

Revision: **1**

Engineer: **Ponova Stefan**

Drawn By: **Ponova Stefan**



Creation Date: **1:20:29 PM**

Print Date: **9:21:48 AM**

Quantity	Designator	Description_	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
1	C1	CAP CER 1uF 35V 10% X7R SMD 0805	TDK Corporation	CGA4J3X7R1V105K125	Digi-Key	445-6962-1-ND
1	C2	CAP CER 1uF 10V 20% X7R SMD 0603	TDK	C1608X7R1A105M	Digi-Key	445-5139-1-ND
2	C3, C7	CAP CER 10uF 16V 20% X5R SMD 0805	TDK	C2012X5R1C106M/0.85	Digi-Key	445-7645-1-ND
4	C4, C5, C6, C8	CAP CER 10uF 50V 20% X7S SMD 1210	TDK	C3225X7S1H106M	Digi-Key	445-4537-1-ND
1	C9	CAP CER 0.1uF 50V 20% X7R SMD 0603	TDK	C1608X7R1H104M	Digi-Key	445-5098-1-ND
2	D1, D2	DIO RECT 1N4148 855mV 300mA 75V SOD-323	Diodes Incorporated	1N4148WS-7	Digi-Key	1N4148WSDITR-ND
1	D3	DIO ZNR 1SMA5918BT3G 5.1V 500mW DO-214AC_SMA	ON Semiconductor	1SMA5918BT3G	Digi-Key	1SMA5918BT3GOSTR-ND
2	D4, D5	DIO SCTKY MBRA140T3G 505mV 1A 40V DO-214AC_SMA	ON Semiconductor	MBRA140T3G	Digi-Key	MBRA140T3GOSCT-ND
1	J1	CON HDR-2.54 Male 1x3 Tin 5.84MH TH VERT	Samtec	TSW-103-07-T-S	Digi-Key	SAM1035-03-ND
8	J3, J5, J6, J7, J11, J12, J13, J14	CON TP LOOP Tin SMD	Harwin Inc	S1751-46R	Digi-Key	952-1478-1-ND
1	L1	INDUCTOR 4.7uH 2A 20% SMD XFL4020	Coilcraft	XFL4020-472MEB	Coilcraft	XFL4020-472MEB
1	L2	INDUCTOR 10uH 2.2A 20% SMD L4.3W4.3H4.1	Coilcraft	XAL4040-103MEB	Coilcraft	XAL4040-103MEB
2	R1, R2	RES 5.6K OHM 1/4W 1% 1206 SMD	Panasonic Electronic Cor	ERJ-8ENF5601V	Digi-Key	P5.60KFCT-ND
1	RB	RES TKF 9.1k 1% 1/8W SMD 0805	Stackpole Electronics Inc	RMCF-1/10-9.1K-1%	Stackpole Elect	RMCF-1/10-9.1K-1%
1	RB1	RES TKF 174k 1% 1/8W SMD 0805	Panasonic Electronic Cor	ERJ-6ENF1743V	Digi-Key	P174KCCT-ND
1	RB2	RES TKF 453k 1% 1/8W SMD 0805	Panasonic Electronic Cor	ERJ-6ENF4533V	Digi-Key	P453KCCT-ND
1	RT	RES TKF 169k 1% 1/8W SMD 0805	Panasonic Electronic Cor	ERJ-6ENF1693V	Digi-Key	P169KCCT-ND
1	RT1	RES TKF 1.1M 1% 1/8W SMD 0805	Panasonic Electronic Cor	ERJ-6ENF1104V	Digi-Key	P1.10MCCT-ND
1	SW3	SWITCH DIP SPST 24V 25mA 418121270801 SMD	Würth Electronics Inc	418121270801	Würth Electroni	418121270801
9	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9	CON TP LOOP Red TH	Keystone	5010	Digi-Key	5010K-ND

Microchip Parts listed below

1	U1	MCHP ANALOG LDO 5V MCP1804T-5002I/OT SOT-23-5	Microchip	MCP1804T-5002I/OT	Microchip	MCP1804T-5002I/OT
2	U2, U3	MCHP ANALOG SWITCHER BOOST 24V MCP1663T-E/OT SOT-23-5	Microchip Technology Inc	MCP1663T-E/OT	Microchip Tech	MCP1663T-E/OT

Mechanical Parts to be added in the package

1	JP1	MECH HW JUMPER 2.54mm 1x2 Handle Gold	TE Connectivity	881545-2	Digi-Key	A26242-ND
4	PAD1, PAD2, PAD3, PAD4	MECH HW RUBBER PAD Bumpon Hemisphere 0.630" x 0.312" Black	3M	SJ-5027 (BLACK)	Digi-Key	SJ5027-0-ND

Do Not Populate Parts listed below

Approved _____ Notes _____