

**--- BOM --- WDPC - WatchDog Power Cycler (Rev A01)**

Reference	Quantity	DigiKey_PN	Jameco_PN	Name	Description	Package	Tolerance	Voltage	Type	Wattage	DigiKey Cost ea	Jameco Cost ea	Item Total
C1	1	P5165-ND		100uF	20% 35V Alum Radial	RAD248	20%	35V	Alum		\$0.102		\$0.10
C2	1	493-1084-ND		470uF	20% 35V Alum Radial	RAD394	20%	35V	Alum		\$0.256		\$0.26
C3,C4	2	PCC1828CT-ND		0.1uF	10% 25V X7R 0805	805	10%	25V	X7R		\$0.062		\$0.12
D1,D2,D3,D4,D5	5	1N4007-E3/54GICT-ND		1N4007	Diode Rectifier 1000V 1A	DO41					\$0.069		\$0.35
D10,D11,D12,D13,D14,D15,D16,D7,D8,D9	10		333489	LED	LED RED T1.75, 660nm, 380mcd, 1.5V	SqPin1x2						\$0.120	\$1.20
D6	1	1N4148FS-ND		1N4148	Diode	DO35					\$0.032		\$0.03
FC1,FC2	4	283-2601-ND		Fuse Clips 0.250 x 1.250	Fuse Clips	FC1250					\$0.168		\$0.67
J1 (see below for cabinet mounted conn.)	0		104952	DB9-F-RA	D-Sub Connector	DB9F318						\$0.610	\$0.00
J2	1	S1211E-36-ND		1 x 7	Square Pin Conn 0.025 pin 0.1 space	SqPin1x7					\$0.342		\$0.34
K1	1	PB441-ND		SPDT 12 AMP 12VDC Coil	Relay PCB Mount	RLY1PCB					\$1.540		\$1.54
MH10,MH7,MH8,MH9	4			UnPlated #6	Mounting Hole	MHUP6							\$0.00
Q1,Q3,Q4	3	2N3904FS-ND		2N3904	Transistor NPN TO92	TO92					\$0.081		\$0.24
Q2	1	PN2222AFS-ND		PN2222A	Transistor NPN TO92	TO92					\$0.086		\$0.09
R1	1	RHM110CCT-ND		110	1/8W 1% 0805	805	1%			1/8W	\$0.027		\$0.03
R10,R11,R12,R13,R14,R15,R16,R7,R8,R9	10	RHM470CCT-ND		470	1/8W 1% 0805	805	1%			1/8W	\$0.027		\$0.27
R17,R19,R20,R4,R5,R6	6	RHM3.30KCCT-ND		3.30K	1/8W 1% 0805	805	1%			1/8W	\$0.027		\$0.16
R18	1	RHM100CCT-ND		100	1/8W 1% 0805	805	1%			1/8W	\$0.027		\$0.03
R2	1	RHM332CCT-ND		332	1/8W 1% 0805	805	1%			1/8W	\$0.027		\$0.03
R3	1	RHM1.00KCCT-ND		1.00K	1/8W 1% 0805	805	1%			1/8W	\$0.027		\$0.03
T1	1	MT2106-ND		115/230VAC Dual 8.0VAC 150 mA	Transformer PCB Mount	XFRM1PCB					\$4.480		\$4.48
TP1,TP2,TP3,TP4,TP5,TP6	6			Plated #6	Mounting Hole	MHP6							\$0.00
U1	1	LM317TGOS-ND	23579	LM317	Voltage Regulator	TO220AB					\$0.680		\$0.68
U2	1	PIC16F648A-I/P-ND		PIC16F648A	MicroController	DIP18					\$3.800		\$3.80
F1, F2	2	F2519-ND		3AG Fuse	Fuse 10 AMP 250V 3AG						\$0.310		\$0.62
U3 (optional)	0	535-9170-5-ND		OSC 14.318MHz	Half Can TTL 5.0V	DIP8OSC					\$1.300		\$0.00
-	1			PCB 4" x 4" etched	PCB WDPC Rev A01						\$3.000		\$3.00
J3	1	Q210-ND		AC Power Input Connector	AC Power Input Connector						\$0.920		\$0.92
J4	1	486-1082-ND		AC Power Output Connector	AC Power Output Connector						\$0.950		\$0.95
-	1	920024-19-ND		#6 Terminal Crimp Lug	Crimp Lug						\$0.175		\$0.18
-	1			3 inch #14 Stranded Copper Wire	#14 Wire								\$0.00
-	6			4 inch #14 Stranded Copper Wire	#14 Wire								\$0.00
-	1			7 inch #14 Stranded Copper Wire	#14 Wire								\$0.00
S1	1		75969	Subminiature SPDT Switch	Switch							\$1.520	\$1.52
J1	1		223052	DB9 Receptacle	D-Sub Connector							\$2.090	\$2.09
-	1			3 inch #26 Stranded Copper Wire	#26 Wire								\$0.00
-	1			11 inch #26 Stranded Copper Wire	#26 Wire								\$0.00
-	3			16 inch #26 Stranded Copper Wire	#26 Wire								\$0.00
-	4	492-1091-ND		Spacer 0.375" x 0.250" #4	Nylon Spacer						\$0.039		\$0.16
-	1	492-1091-ND		Spacer 0.375" x 0x250" #4	Custom Threaded Spacer (#6)						\$0.039		\$0.04
-	4	492-1102-ND		Spacer 0.125" x 0.25" #6	Nylon Spacer						\$0.037		\$0.15
-	4	H350-ND		4-40 x 0.750" Screw	Steel Zinc Screw						\$0.021		\$0.09
-	2		172603	4-40 x 0.187 x 0.315"L Jack Screw	Jack Screw						\$0.150		\$0.30
-	6	H216-ND		#4 Hex Nut	Steel Zinc Hex Nut						\$0.009		\$0.06
-	1	H354-ND		6-32 x 0.250" Screw	Steel Zinc Screw						\$0.019		\$0.02
-	2	H360-ND		6-32 x 0.500" Screw	Steel Zinc Screw						0.0228		\$0.05
-	2	H220-ND		#6 Hex Nut	Steel Zinc Hex Nut						0.0144		\$0.03
-	4		142658	0.500" x 0.140" Foot	Adhesive Rubber Foot						\$0.070		\$0.28
-	1			Cabinet Labels - 1 set (Custom)	Labels								\$0.00
-	1	HM616-ND		7"x5"x3" Alum Box	Cabinet						\$10.760		\$10.76
												Total Cost =	\$35.63