## **Bill Of Materials for Boost Converter PID**

**Design Title** Boost Converter PID

Author Salah Ud Din

Document Number 1 Revision 1

**Design Created** Sunday, December 10, 2023 **Design Last Modified** Sunday, December 10, 2023

Total Parts In Design 14

Capability   References   Value	1 Canacitora		
1     C1     100uF       Sub-totals:     4 Resistors       Quantity     References     Value       1     R1     100       1     R2     40k       1     R3     10       1     R4     1k       Sub-totals:     ************************************	1 Capacitors	Deferences	Value
Sub-totals:   Sub-totals:			
A Resistors		OI	10001
Quantity         References         Value           1         R1         100           1         R2         40k           1         R3         10           1         R4         1k           Sub-totals:         3 Integrated Circuits           Quantity         References         Value           1         U1         RP14           1         U2         IR2101           1         U3         MCP3004           Sub-totals:         1 Transistors           Quantity         References         Value           1         Q3         IRFZ44N           Sub-totals:         3 Diodes           Quantity         References         Value           1         D1         BAR28           1         D2         DIODE           1         D3         1N4728A           Sub-totals:         2         DIODE           2         Miscellaneous         Value           Quantity         References         Value           3         1         N4728A			
1       R1       100         1       R2       40k         1       R3       10         1       R4       1k         Sub-totals:         3 Integrated Circuits       Value         1       U1       RP4         1       U2       IR2101         1       U3       MCP3004         Sub-totals:       Transistors         Quantity       References       Value         1       Q3       IRFZ44N         Sub-totals:       3 Diodes         Quantity       References       Value         1       D1       BAR28         1       D2       DIODE         1       D3       1N4728A         Sub-totals:       2 Miscellaneous         Quantity       References       Value         1       D3       1N4728A         Sub-totals:       2 Miscellaneous         Quantity       References       Value         1       L1       330uH         1       V1       5V		Poforonoos	Value
1			
1       R3       10         1       R4       1k         Sub-totals:       3 Integrated Circuits         Quantity       References       Value         1       U1       RPI4         1       U2       IR2101         1       U3       MCP3004         Sub-totals:         1       Transistors       Value         1       Q3       IRFZ44N         Sub-totals:       3 Diodes         Quantity       References       Value         1       D1       BAR28         1       D2       DIODE         1       D3       1N4728A         Sub-totals:         2 Miscellaneous       Value         Quantity       References       Value         1       D3       330uH         1       L1       330uH         1       V1       5V			
R4       1 k         Sub-totals:         Quantity       References       Value         1       U1       RP14         1       U2       IR2101         1       U3       MCP3004         Sub-totals:         1       Transistors         Quantity       References       Value         1       Q3       IRFZ44N         Sub-totals:         3       Diodes         Quantity       References       Value         1       D1       BAR28         1       D2       DIODE         1       D3       1N4728A         Sub-totals:       2       Miscellaneous         Quantity       References       Value         1       L1       330uH         1       L1       330uH         1       V1       5V			
Sub-totals: 3 Integrated Circuits  Quantity References Value 1 Uf RP4 1 U2 IR2101 1 U3 MCP3004 Sub-totals:  1 Transistors Quantity References Quantity Q3 IRF244N Sub-totals:  3 Diodes Quantity References Quantity References D1 D1 BAR28 1 D2 DIODE 1 D3 IN4728A Sub-totals:  2 Miscellaneous Quantity References Value 1 D3 D3 DIODE D3 D3 D3 DIODE D3 D3 DIODE D3 D3 D3 D3 D3 D4 D4 D4 D4 D5 D4 D5 D4 D5 D5 D5 D6 D6 D7 D8			
3 Integrated Circuits   References   Value     1		R4	1K
Quantity         References         Value           1         U1         RPI4           1         U2         IR2101           1         U3         MCP3004           Sub-totals:           Transistors           Quantity         References         Value           1         Q3         IRFZ44N           Sub-totals:           3 Diodes         Value           1         D1         BAR28           1         D2         DIODE           1         D3         1N4728A           Sub-totals:           2         Miscellaneous           Quantity         References         Value           1         L1         330uH           1         V1         5V			
1       U1       RPI4         1       U2       IR2101         1       U3       MCP3004         Sub-totals:         Transistors         Quantity       References       Value         1       Q3       IRFZ44N         Sub-totals:         Quantity       References       Value         1       D1       BAR28         1       D2       DIODE         1       D3       1N4728A         Sub-totals:         2       Miscellaneous         Quantity       References       Value         1       L1       330uH         1       V1       5V		D.C.	Wil .
1       U2       IR2101         1       U3       MCP3004         Sub-totals:       Value         1 Transistors       Value         1       Q3       IRFZ44N         Sub-totals:       3 Diodes         Quantity       References       Value         1       D1       BAR28         1       D2       DIODE         1       D3       1N4728A         Sub-totals:       2         2 Miscellaneous         Quantity       References       Value         1       L1       330uH         1       V1       5V			
1       U3       MCP3004         Sub-totals:       1 Transistors         Quantity       References       Value         1       Q3       IRFZ44N         Sub-totals:         3 Diodes       Quantity       References       Value         1       D1       BAR28         1       D2       DIODE         1       D3       1N4728A         Sub-totals:       2         Miscellaneous         Quantity       References       Value         1       L1       330uH         1       V1       5V			
Sub-totals:         1 Transistors       Value         Quantity       References       Value         Sub-totals:       Value         3 Diodes       Value         Quantity       References       Value         1       D1       BAR28         1       D2       DIODE         1       D3       1N4728A         Sub-totals:       2         2 Miscellaneous       Value         Quantity       References       Value         1       L1       330uH         1       V1       5V			
1 Transistors           Quantity         References         Value           1         Q3         IRFZ44N           Sub-totals:           3 Diodes         Value           Quantity         References         Value           1         D1         BAR28           1         D2         DIODE           1         D3         1N4728A           Sub-totals:         2           Miscellaneous           Quantity         References         Value           1         L1         330uH           1         V1         5V		U3	MCP3004
Quantity         References         Value           1         Q3         IRFZ44N           Sub-totals:           3 Diodes         Value           Quantity         References         Value           1         D1         BAR28           1         D2         DIODE           1         D3         1N4728A           Sub-totals:         2 Miscellaneous           Quantity         References         Value           1         L1         330uH           1         V1         5V			
1       Q3       IRFZ44N         Sub-totals:         3 Diodes         Quantity       References       Value         1       D1       BAR28         1       D2       DIODE         1       D3       1N4728A         Sub-totals:         2 Miscellaneous         Quantity       References       Value         1       L1       330uH         1       V1       5V		_ ,	
Sub-totals:         3 Diodes         Quantity       References       Value         1       D1       BAR28         1       D2       DIODE         1       D3       1N4728A         Sub-totals:       2 Miscellaneous         Quantity       References       Value         1       L1       330uH         1       V1       5V			
3 Diodes           Quantity         References         Value           1         D1         BAR28           1         D2         DIODE           1         D3         1N4728A           Sub-totals:           2 Miscellaneous           Quantity         References         Value           1         L1         330uH           1         V1         5V		Q3	IRF244N
Quantity         References         Value           1         D1         BAR28           1         D2         DIODE           1         D3         1N4728A           Sub-totals:           2 Miscellaneous           Quantity         References         Value           1         L1         330uH           1         V1         5V			
1       D1       BAR28         1       D2       DIODE         1       D3       1N4728A         Sub-totals:         2 Miscellaneous         Quantity       References       Value         1       L1       330uH         1       V1       5V		D (	V 1
1       D2       DIODE         1       D3       1N4728A         Sub-totals:         2 Miscellaneous       Value         Quantity       References       Value         1       L1       330uH         1       V1       5V			
1       D3       1N4728A         Sub-totals:       2 Miscellaneous         Quantity       References       Value         1       L1       330uH         1       V1       5V			
Sub-totals:         2 Miscellaneous         Quantity       References       Value         1       L1       330uH         1       V1       5V			
2 Miscellaneous  Quantity References Value  1 L1 330uH  1 V1 5V		D3	1N4728A
QuantityReferencesValue1L1330uH1V15V			
1 L1 330uH 1 V1 5V			
1 V1 5V			
Sub-totals:		V1	5V
	Sub-totals:		

Totals:

Sunday, December 10, 2023 9:30:08 PM