ELECTRICAL SPECIFICATION:

Parameters	Symbol	Value	Note
Input Voltage	VIN	2.75V~5.5V	
Output Voltage	VOUT	0.6V~4V	
Output Current	IOUT	3A	
Enable Voltage	EN	1.6V~5V	

PROGRAMMING OUTPUT VOLTAGE:

PROGRAMMING OUTPUT VOLTAGE:

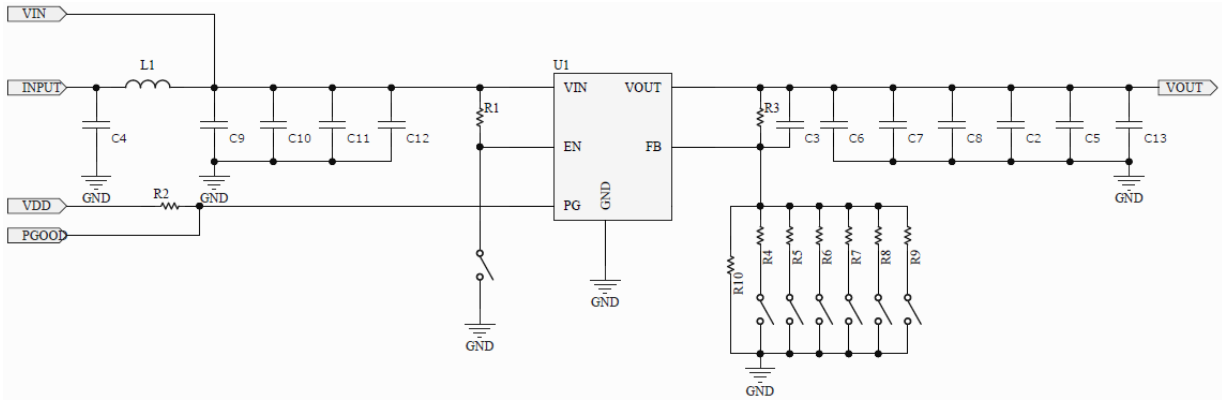
For MUN3CAD03-JE adjustable Vout version. The output voltage can be programmed by the dividing resistor RFB_top and RFB_bot, Assume RFB_top set 200 Kohm, the output voltage can be calculated as shown in Equation 1 and the resistance according to typical output voltage is shown in TABLE 1.

$$\text{VOUT (V)} = 0.6 \times \left(1 + \frac{\text{RFB\_top}}{\text{RFB\_bot}}\right) \quad \text{(EQ.1)}$$

Vout (V)	RFB_top (kΩ)	RFB_bot(kΩ)
1.0	200	300
1.2	200	200
1.8	200	100
2.5	200	63.158
3.3	200	44.444

TABLE.1 RESISTOR VALUES FOR COMMON OUTPUT VOLTAGES

EVALUATION BOARD SCHEMATIC:

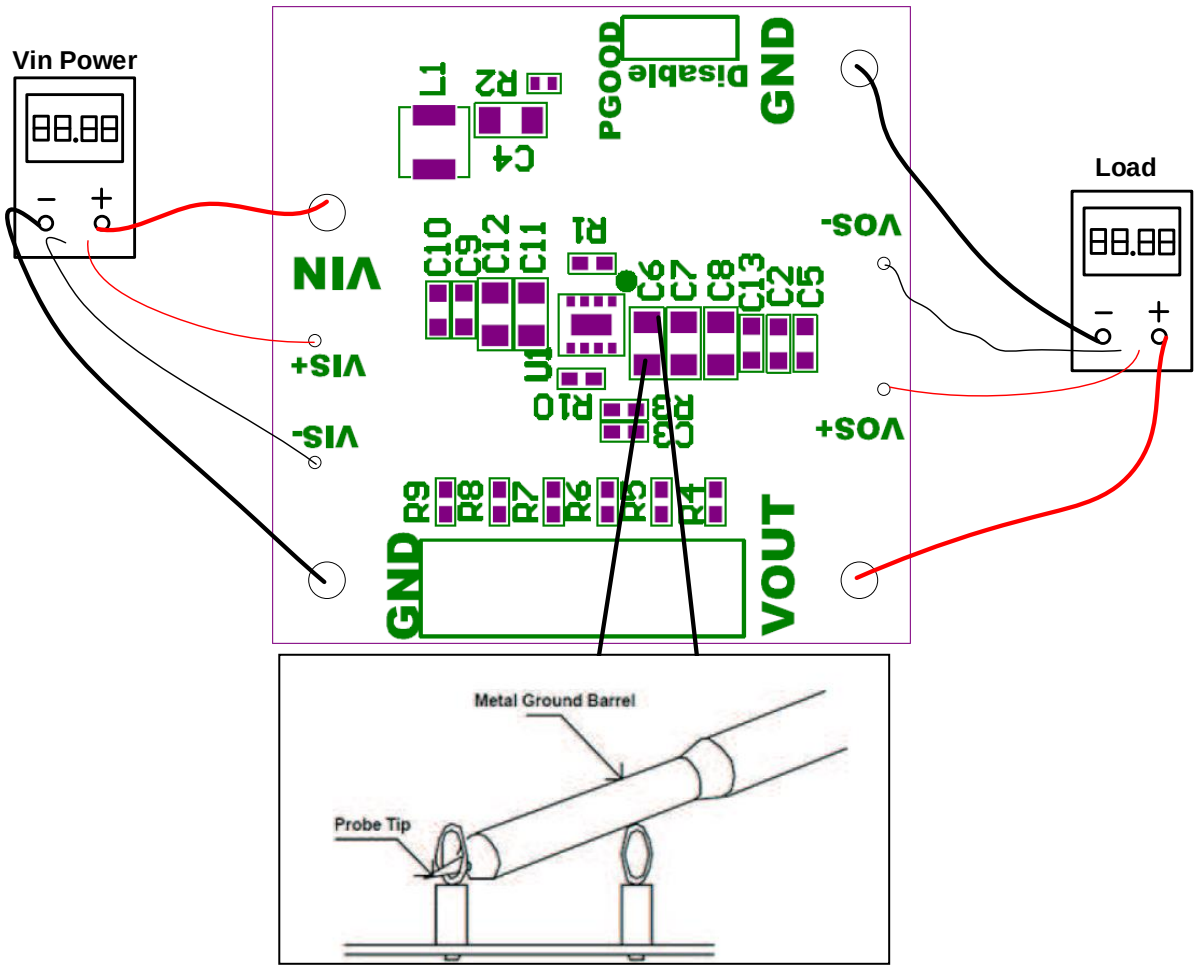


QUICK START GUIDE:

1. Gvie the Vin Power to the module while Disable jump open.
2. Short S1~S6 can set output voltage from 1.0V to 3.3V

	S1	S2	S3	S4	S5	S6
Vout	1V	1.2V	1.8V	2.5V	3.3V	N.C

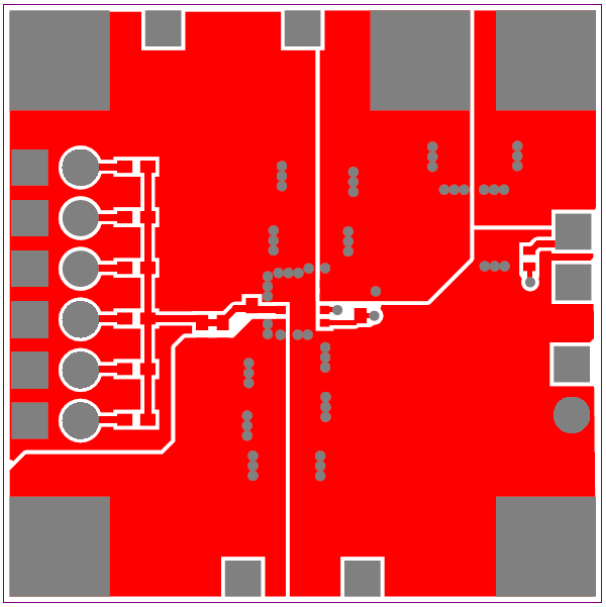
3. Power module can be turned off by shorting disable jump.



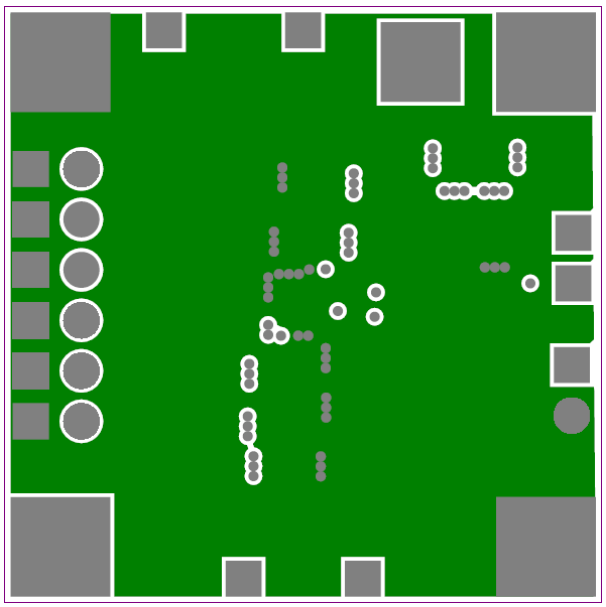
BOM LIST:

COUNT	REF DES	DESCRIPTION	PART NUMBER	MFR
1	U1	Power module, 3.0*2.8*1.3mm	MUN3CAD03-JE	Cyntec
2	C6, C11	MLCC, 22uF, 6.3V, X7T, 0805	GRM21BD70J226ME44L	Murata
1	C13	MLCC, 0.1uF, 25V, X7R, 0402	GRM155R71E104ME14	Murata
3	R1, R2, R6	Resistor, 100kOhm, ±1%, 0402	Std	Std
2	R3, R5	Resistor, 200kOhm, ±1%, 0402	Std	Std
1	R4	Resistor, 300kOhm, ±1%, 0402	Std	Std
1	R7	Resistor, 63.4kOhm, ±1%, 0402	Std	Std
1	R8	Resistor, 44.2kOhm, ±1%, 0402	Std	Std
0	L1, C2, C3 C4, C5, C7, C8, C9, C10, C12, R2, R9, R10	N.C	-	-

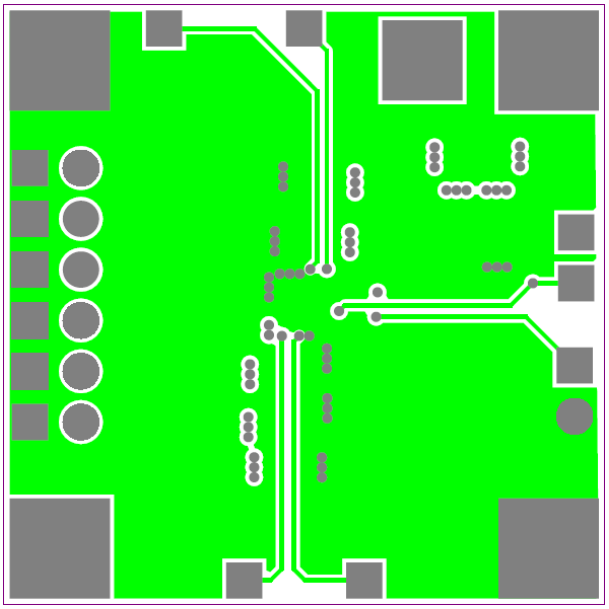
PRIENTED CIRCUIT BOARD LAYOUT:



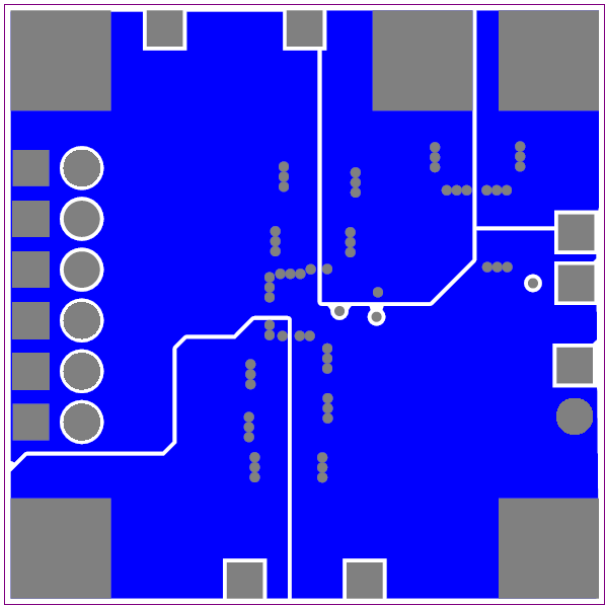
Top Layer



Mid 1 Layer



Mid 2 Layer



Bottom Layer

REVISION HISTORY:

Date	Revision	Changes
2022.10.12	P00	Initial preliminary EVB guide.
2022.10.17	P01	Modify the BOM list