

ELECTRICAL SPECIFICATION:

Parameters	Symbol	Value	Note
Input Voltage	VIN	2.7V~5.5V	
Output Voltage	VOUT	Adjust	
Output Current	IOUT	2A	
Enable Voltage	EN	1.2V~5V	

PROGRAMMING OUTPUT VOLTAGE:

$$V_{OUT}(V) = 0.6 \times \left(1 + \frac{R_{FB_TOP}}{R_{FB_BOT}} \right) \quad (EQ.1)$$

Assume R_{FB_TOP} (R3) set 100 Kohm, the resistance according to typical output voltage is shown in table 1

Vout	1V	1.2V	1.8V	2.5V	3.3V
R _{FB_BOT} (R4~R8)	150k	100k	50k	31.58k	22.22k

TABLE 1: OUTPUT VOLTAGE SETTING

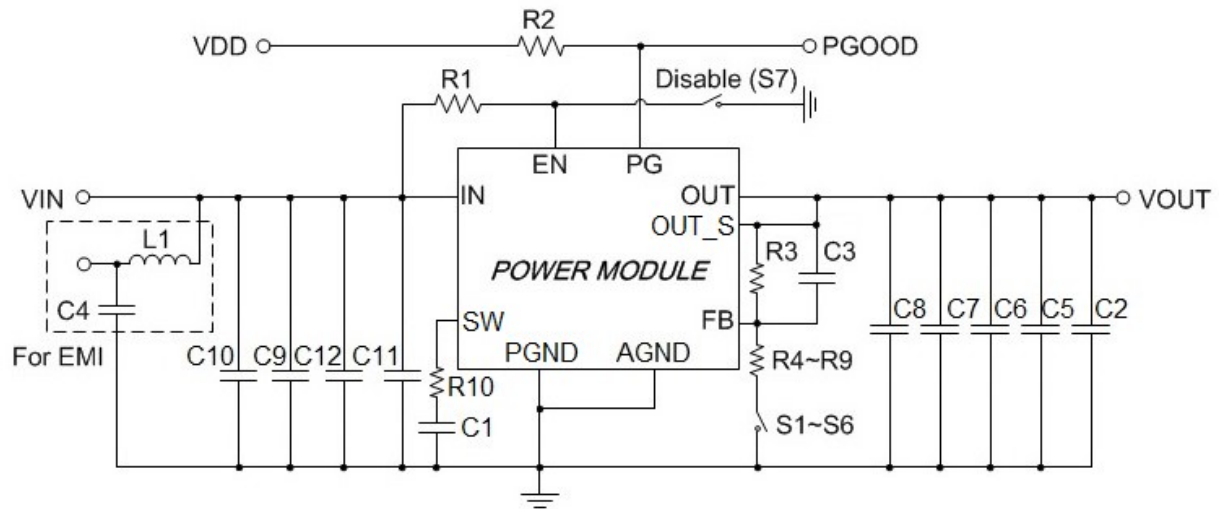
LOAD TRANSIENT RESPONSE INCREASE:

In some applications, adding a ceramic cap (CFB) (C3) in parallel with RFB-TOP may further speed up the load transient responses, recommend capacitance as below table 2.

VOUT (V)	CFB (C3) (pF)
0.6~3.3	100p~470p

TABLE.2 RECOMMEND CFB FOR LOAD TRANSIENT

EVALUATION BOARD SCHEMATIC:



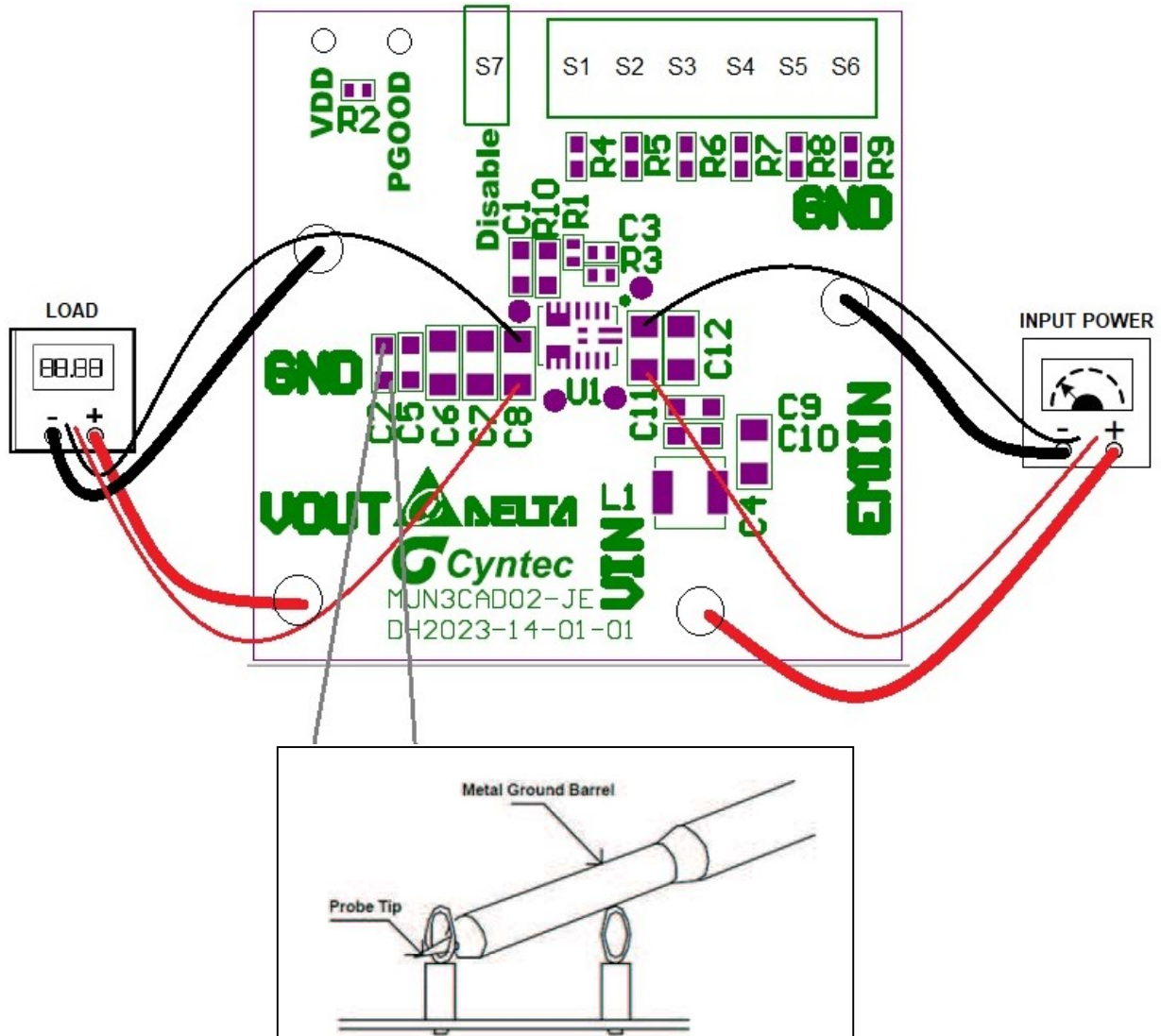
QUICK START GUIDE:

1. Power the MUN3CAD02-JE module on while Disable jump open.
2. Short S1~S6 can set output voltage from 1.0V to 3.3V

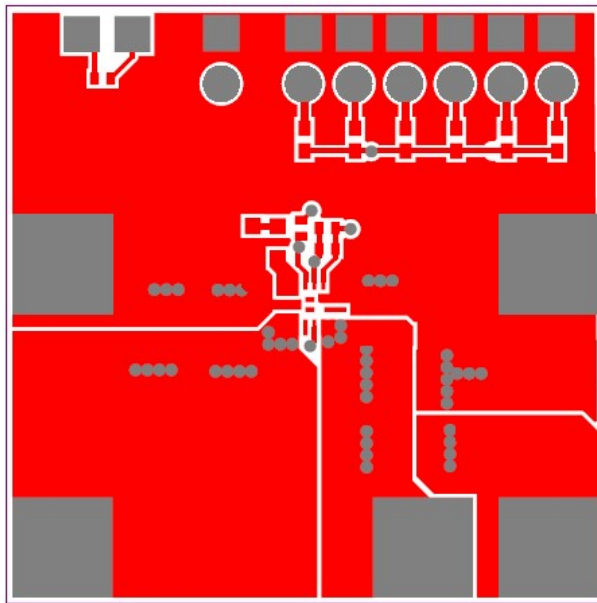
	S1	S2	S3	S4	S5	S6
VOUT	1V	1.2V	1.8V	2.5V	3.3V	N.C

3. Short Disable jump can be turn off Power module.

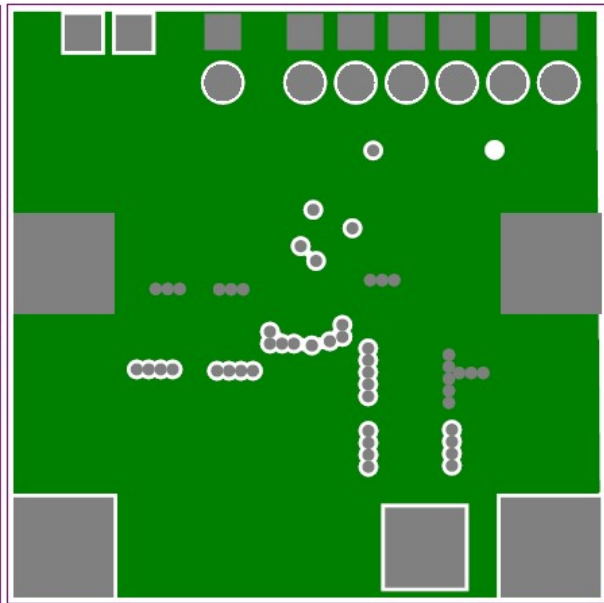
QUICK START GUIDE (cont.):



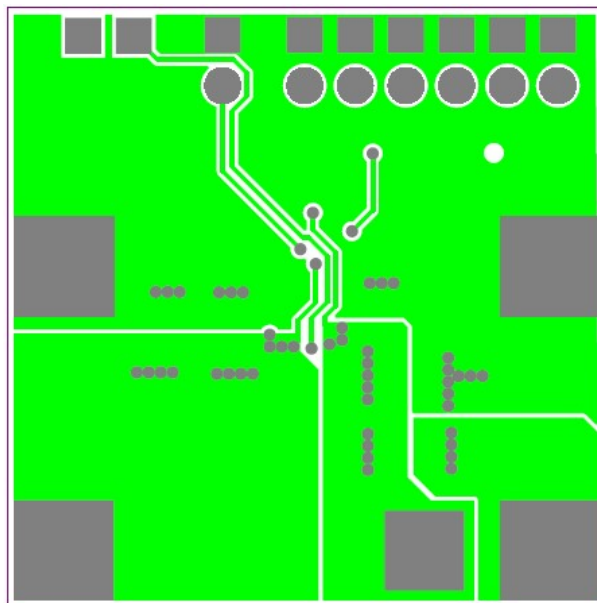
PRINTED CIRCUIT BOARD LAYOUT:



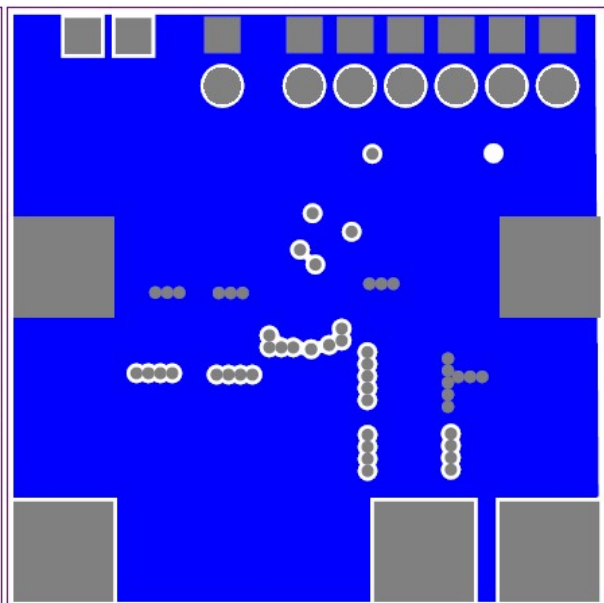
Top Layer



Mid 1 Layer



Mid 2 Layer



Bottom Layer

BOM LIST:

COUNT	REF DES	DESCRIPTION	PART NUMBER	MFR
1	U1	Power module, 3.5*2.5*1.5mm	MUN3CAD02-JE	Cyntec
2	C8, C11	MLCC, 22uF, 6.3V, X7T, 0805	GRM21BD70J226ME44L	Murata
1	C3	MLCC, 100pF, 50V, X7R, 0402	0402B101K500	Walsin
3	R1, R3, R5	Resistor, 100kOhm, $\pm 1\%$, 0402	Std	Std
1	R4	Resistor, 150kOhm, $\pm 1\%$, 0402	Std	Std
1	R6	Resistor, 50kOhm, $\pm 1\%$, 0402	Std	Std
1	R7	Resistor, 31.6kOhm, $\pm 1\%$, 0402	Std	Std
1	R8	Resistor, 22.1kOhm, $\pm 1\%$, 0402	Std	Std
0	C1、C2、C4, C5, C6, C7、C9、 C10、C12	N.C	-	-
0	R2, R9, R10	N.C	-	-
0	L1	N.C	-	-
6	S1, S2, S3, S4, S5, S6	Jump, pitch 2.54mm	Std	Std
1	Disable(S7)	Jump, pitch 2.54mm	Std	Std



MUN3CAD02-JE EVB GUIDE

REVISION HISTORY:

Date	Revision	Changes
2021.01.11	00	Issue initial preliminary EVB guide.
2021.09.14	01	Modify the Bom list