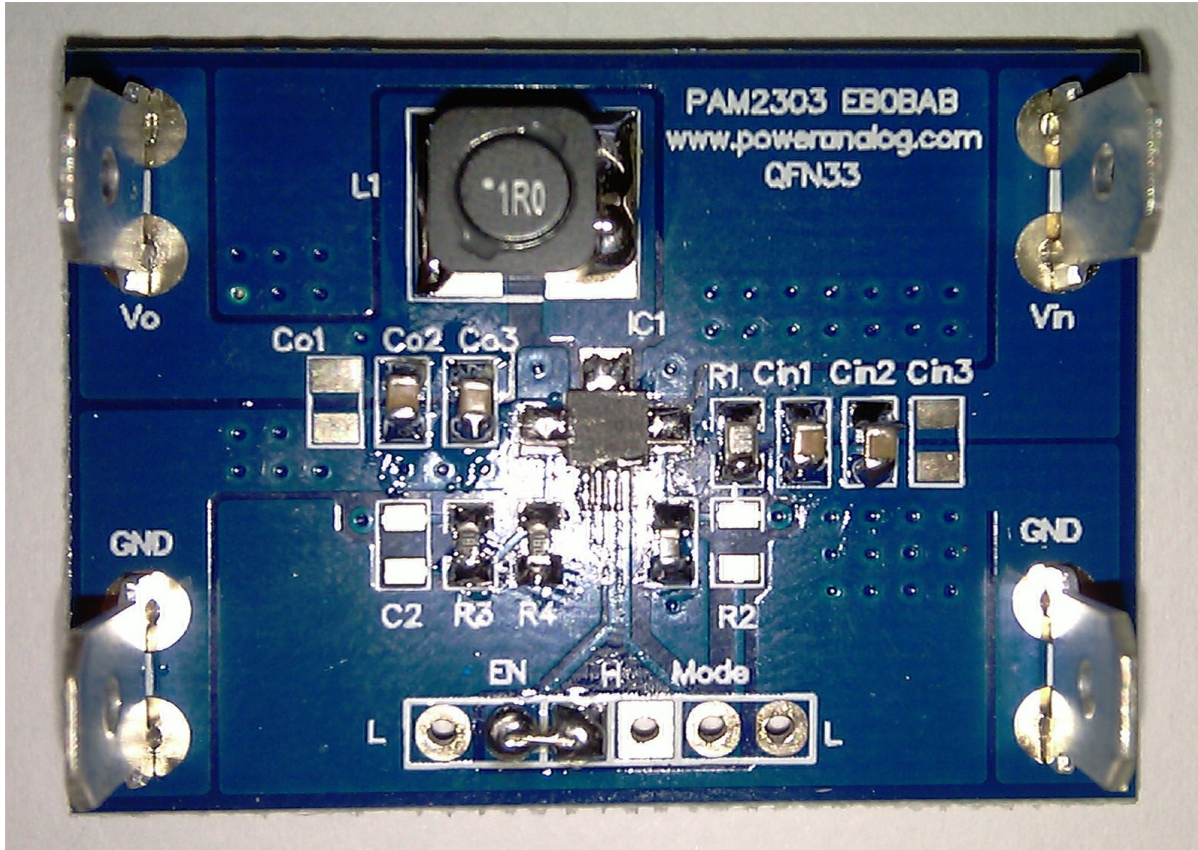






## 6. EV Board View

Top View



## 7. Resistor Select for Output Voltage Setting

$$V_{OUT} = (1 + R3/R4) \times V_{REF} \quad (V_{REF} = 0.6V)$$

Vo	R3	R4	L
1.2V	150k	150k	1uH
1.5V	225k	150k	2.2uH
1.8V	300k	150k	2.2uH
2.5V	475k	150k	2.2uH
3.3V	680k	150k	3.3uH

## 8. External Components Selection

### Input & output Capacitors (CinX, CoX)

- (1) For lower output ripple, low ESR is required.
- (2) Low leakage current needed, 2\*10uF, X5R/X7R ceramic recommend

### Feed forward capacitor (C2)

- (1) Lower the output ripple
- (2) Low leakage current needed, 100pF, COH/CH ceramic recommend

### Output Voltage programmer resistors (R3, R4)

- (1) For programmer output voltage
- (2) For accurate output voltage, 1% tolerance is required.

### Inductor (L1)

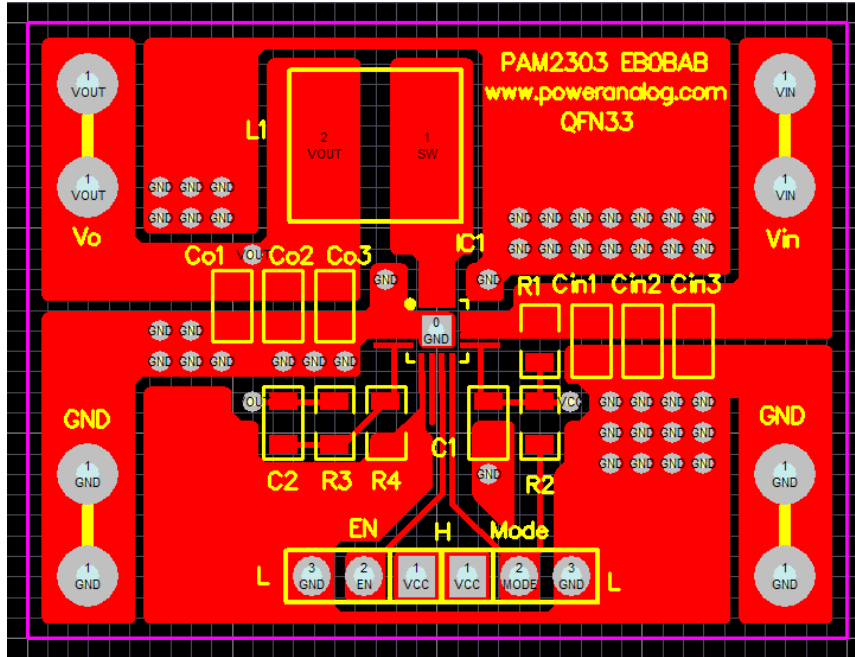
- (1) Low DCR for good efficiency
- (2) Inductance saturate current must higher than the output current

## 9. Evaluation Board BOM List:

Item	Value	Type	Rating	Description	Vender and Part No.
Cin1, Cin2, Co1, Co2	10μF	X5R/X7R, Ceramic/0805	16V	Input coupling CAP, Output CAP	TAIYO YUDEN EMK212ABJ106KD-T
Cin3, Co3	NC				
C1	1.0μF	X5R/X7R, Ceramic/0805	25V	Vin coupling CAP	TAIYO YUDEN TMK212B7105KG-T
C2	100pF	COH/CH, Ceramic/0402	50V	Feed forward CAP	TAIYO YUDEN UMK105CH101JV-F
L1	1μH		>3.5A	Inductor	WURTH 7447786001
R1	10Ω	0805	5%	Filter RES	
R3	150K	0603	1%	Voltage set RES	
R4	150K	0603	1%		
IC1		PAM2303	QFN3*3		
PCB		PAM2303 EB0BAB			

10. PCB Layout Example

Top Layer



Bottom Layer

