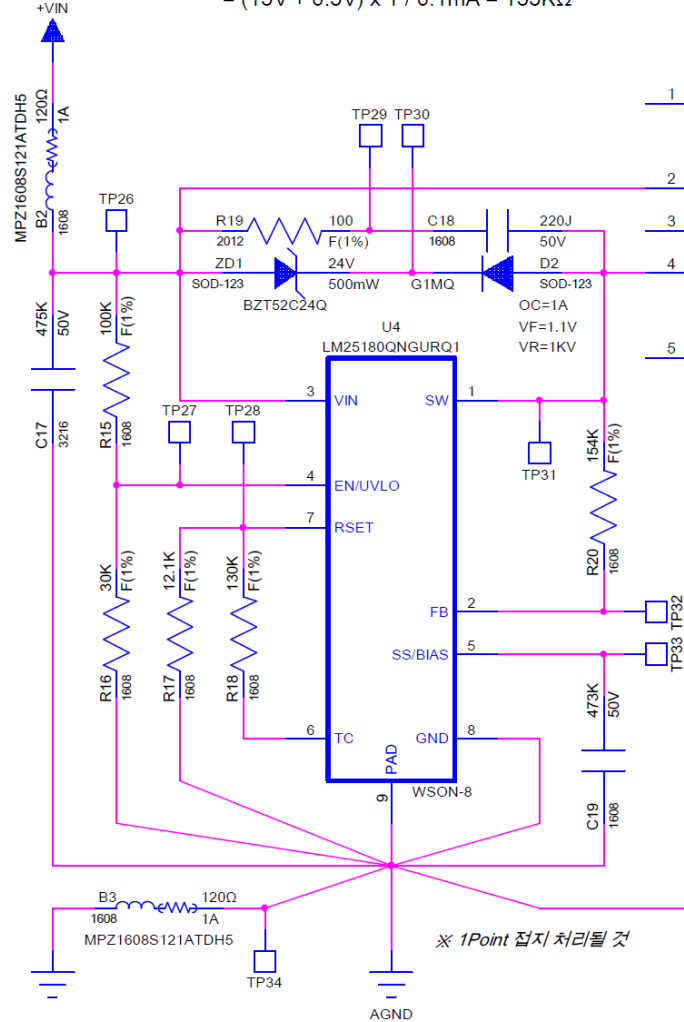


LM25180 EMI 개선 검토

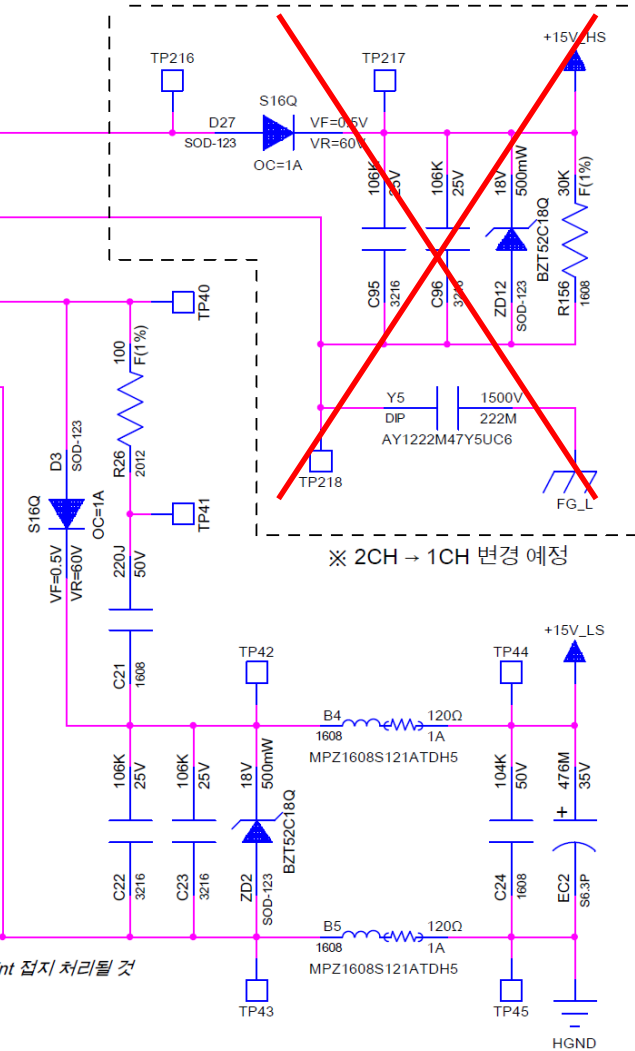
1. LM25180 회로 설계

PSR Flyback DC/DC Converter & 4CH Digital Isolator

$$\begin{aligned} \times R_{fb} &= (V_{out} + V_d) \times N_{ps} / 0.1mA \\ &= (15V + 0.5V) \times 1 / 0.1mA = 155K\Omega \end{aligned}$$



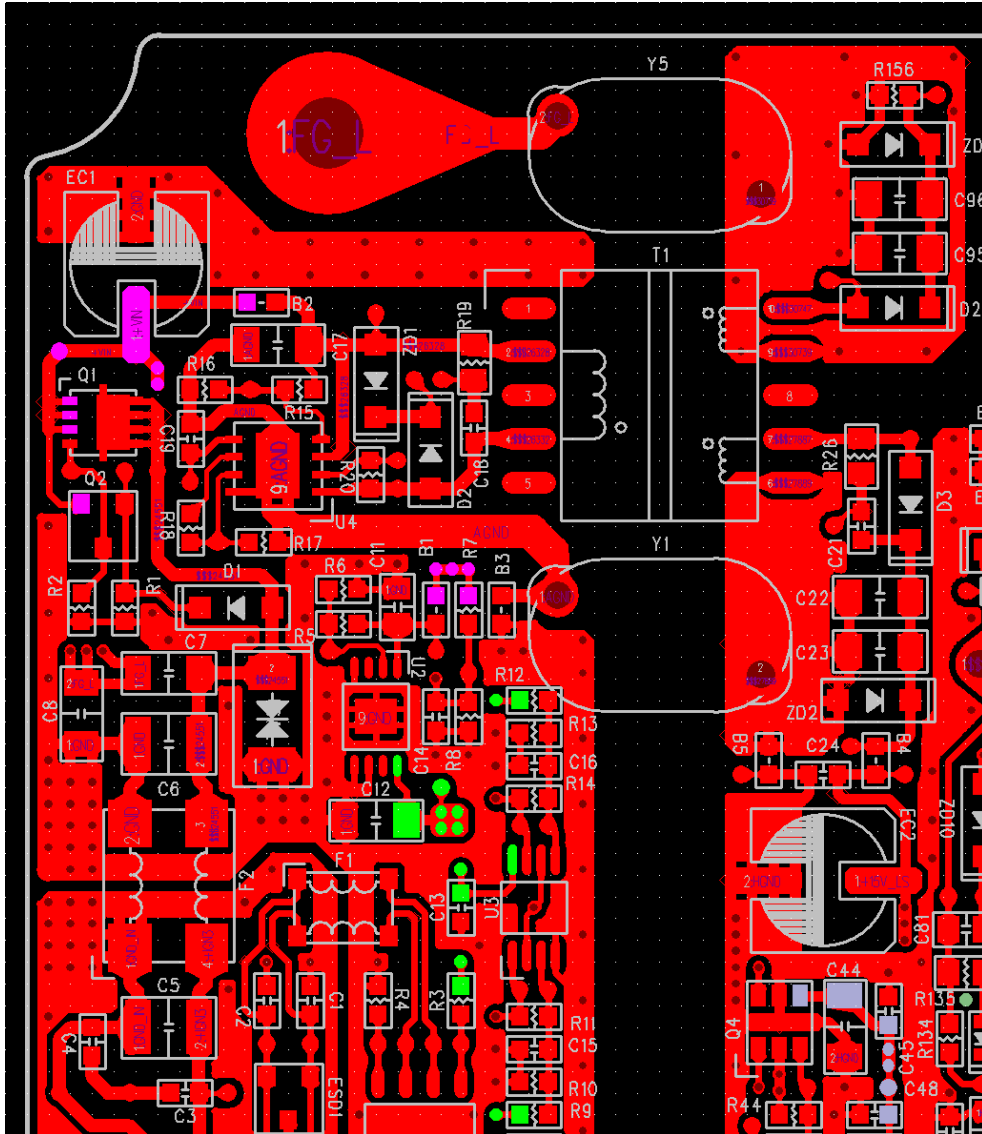
+15V / 150mA & 4CH(3+1) Digital Isolator



LM25180 EMI 개선 검토

2. LM25180 PCB 설계

[TOP Layer]



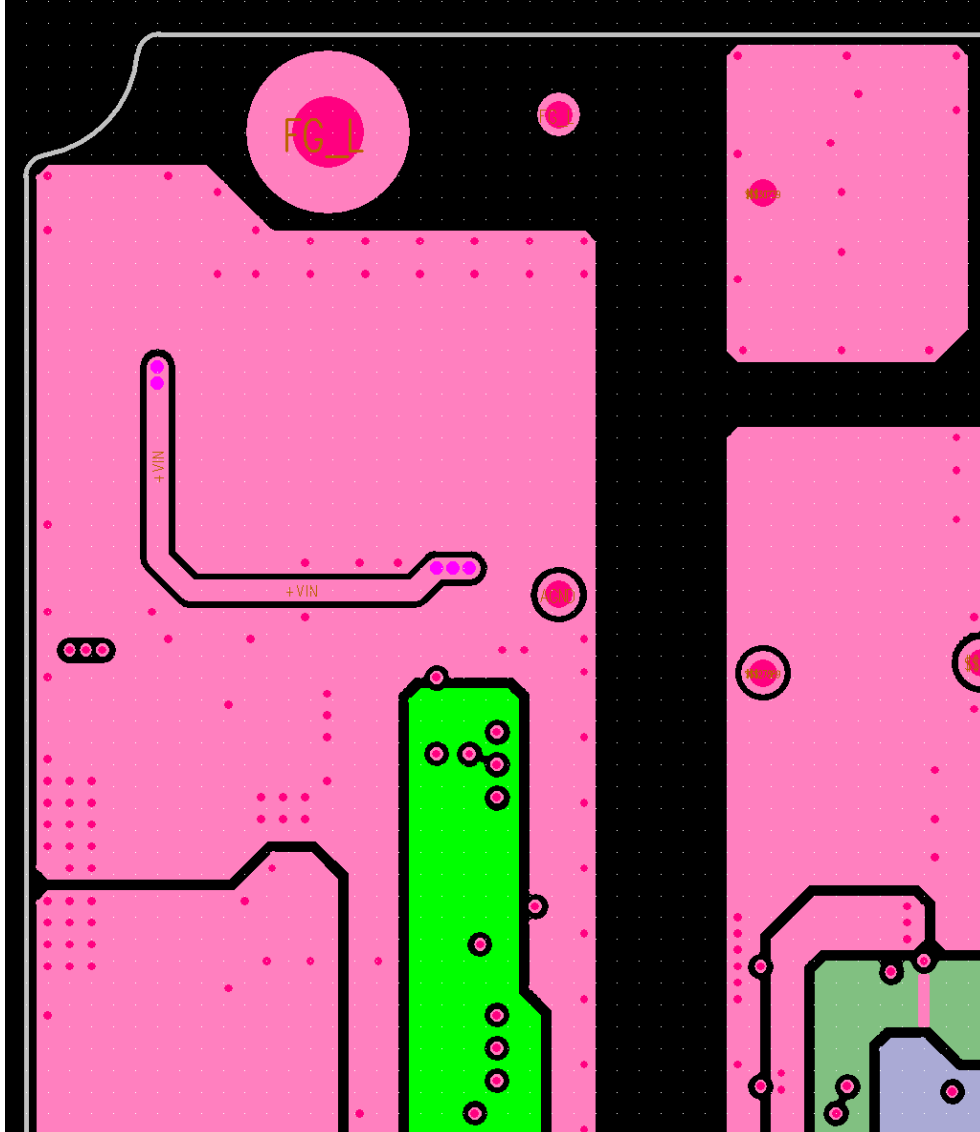
[GND Plane]



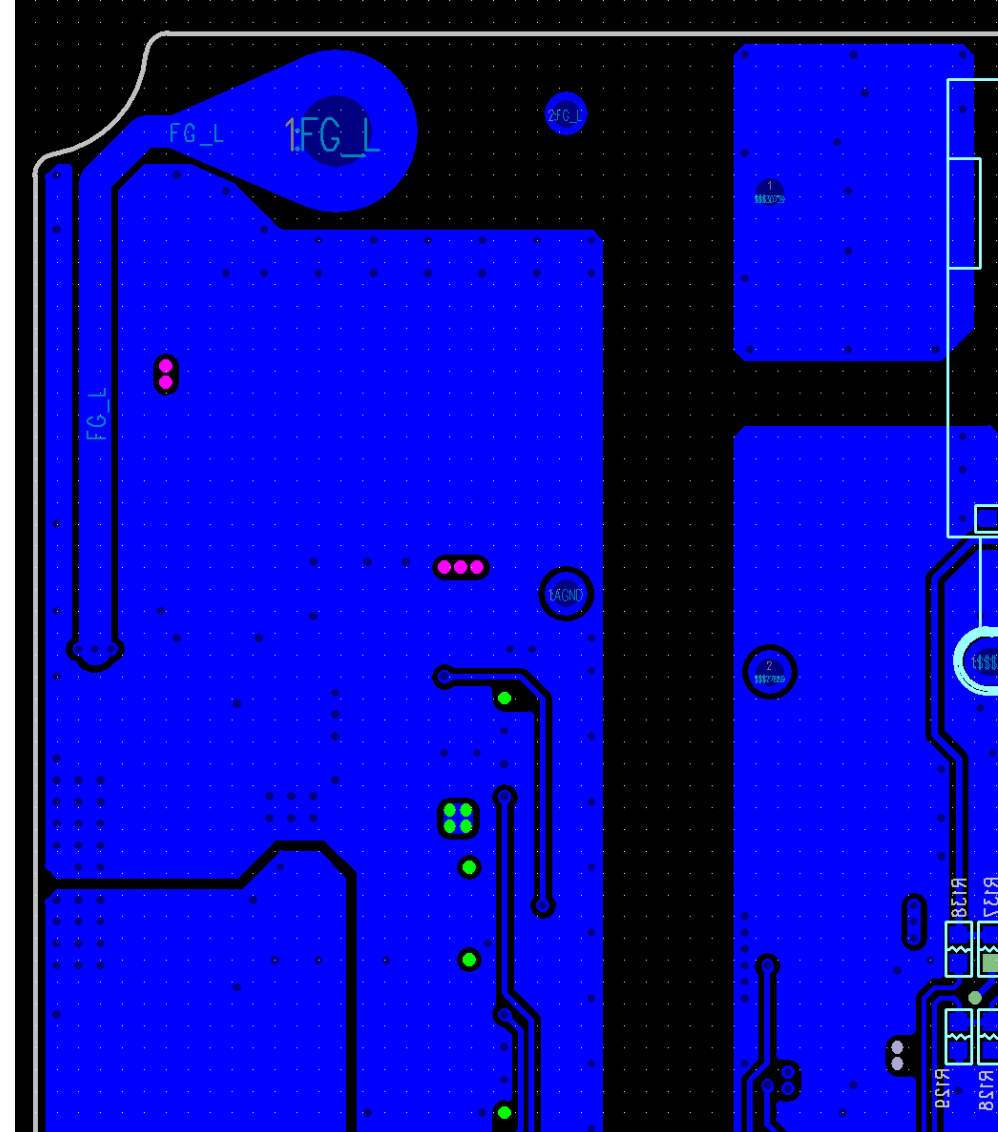
LM25180 EMI 개선 검토

2. LM25180 PCB 설계

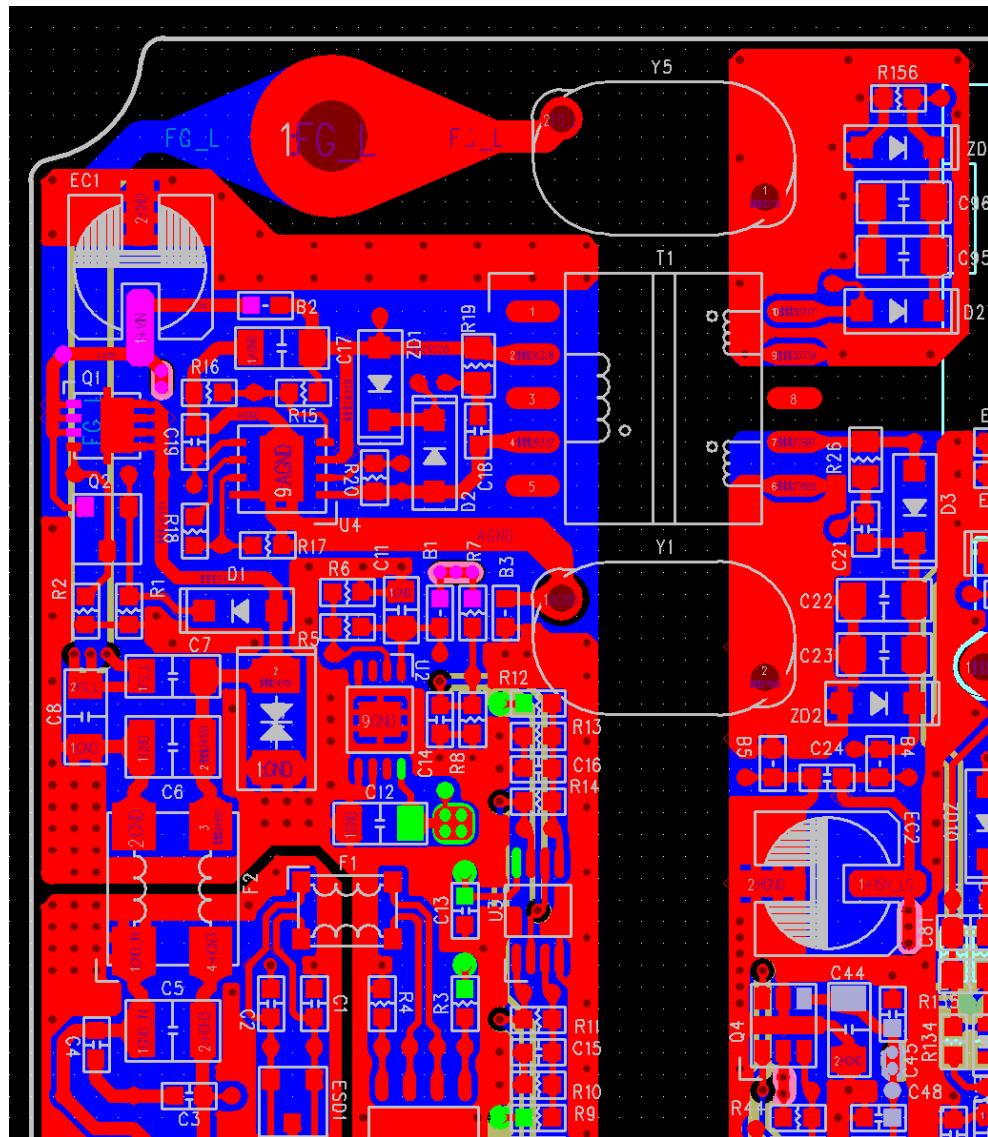
[POWER Plane]



[BOTTOM Layer]



3. LM25180 PCB 제작



LM25180 EMI 개선 검토

4. EMI 측정 결과(Conducted Emission : HV(-), Voltage)

1) VIN = 13.5V, LM25180 Output = 14.8V / 80mA

