

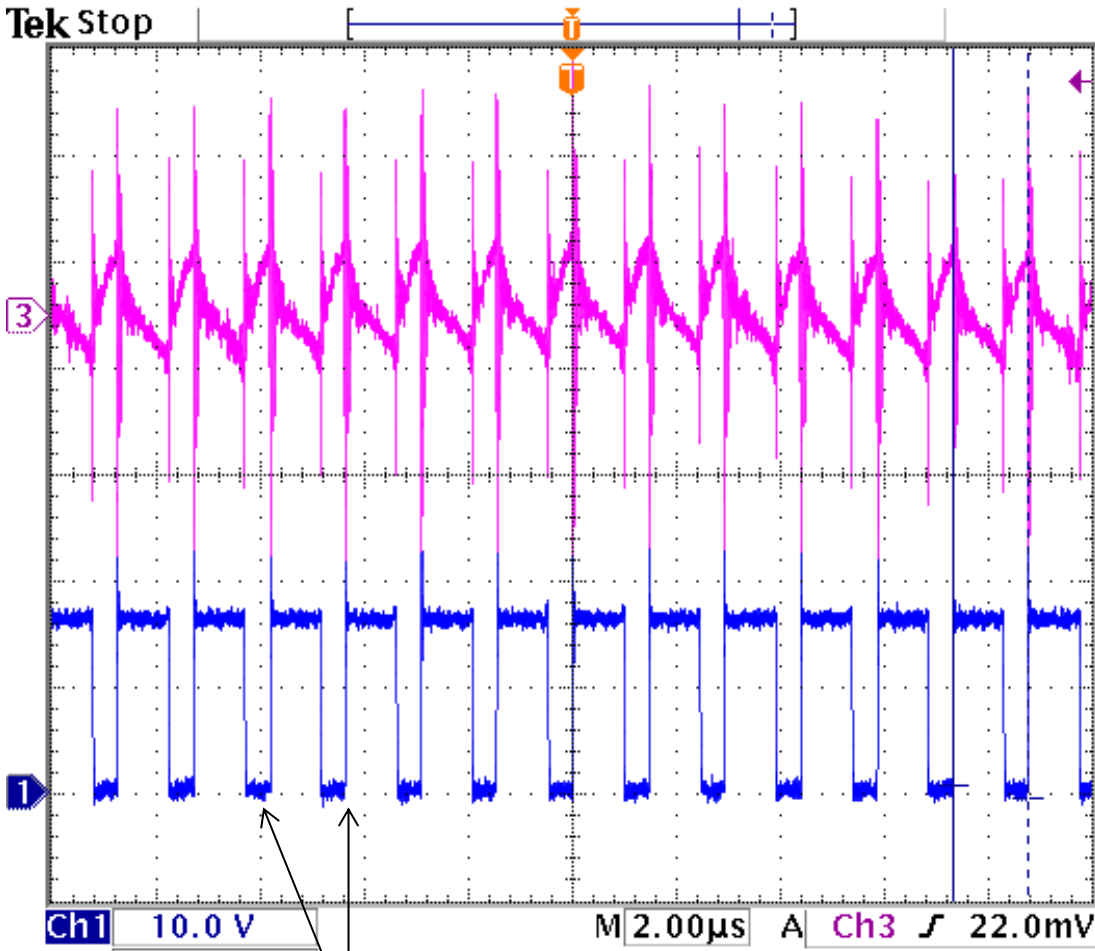
TPS51220EVM

Modified circuit:

280kHz → 666kHz (R15 : 360k → 150k)

Vin=16V
Vout=5V
Iout=6A
Mode=CCM

CH1:
Q2 FET D-S voltage
CH3:
Inductor ripple



Δ: 1.20 V
@: 600mV
Δ: 694kHz
@: 137kHz

Ch3 Max
23.7mV

Ch3 Min
-27.9mV

Ch3 Pk-Pk
51.6mV

Ch1 10.0 V
Ch3 10.0mV
M 2.00μs A Ch3 22.0mV

50.20 %

Frequency variation → 694kHz/676kHz

- Custom question:
- Is this normal operate?
 - Can I reduce this jitter?