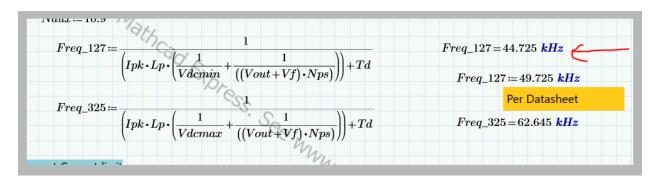- When I change the input voltage to 127 , I am loosing the Resonant turn on(Valley switching) in TINA simulation. Why this is happening?
- In simulation model , at 127v input the Fet is turning on before even Qr pin reach 0.3v
- In T.T's original simulation file the value of c8 is 20p. Shouldn't this be 320p, since ideal elements are used?
- Is the lower frequency (at 127v) calculation wring in the example in datasheet?

$Nout := 10.9$

$$Freq\_127 := \frac{1}{\left(Ipk \cdot Lp \cdot \left(\dfrac{1}{Vdcmin} + \dfrac{1}{((Vout + Vf) \cdot Nps)}\right)\right) + Td}$$

$$Freq\_325 := \frac{1}{\left(Ipk \cdot Lp \cdot \left(\dfrac{1}{Vdcmax} + \dfrac{1}{((Vout + Vf) \cdot Nps)}\right)\right) + Td}$$

$Freq\_127 = 44.725 \ kHz$ ←

$Freq\_127 := 49.725 \ kHz$

Per Datasheet

$Freq\_325 = 62.645 \ kHz$

- There is some discrepancies in R1,R2,CD value calculation assuming simulation file was made for datasheet example