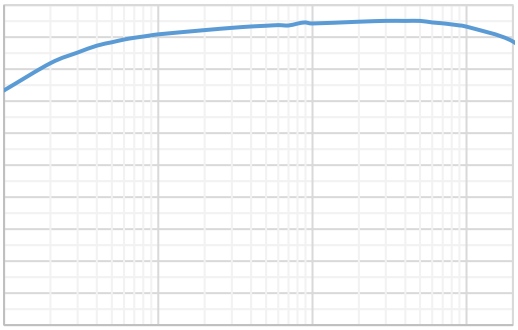
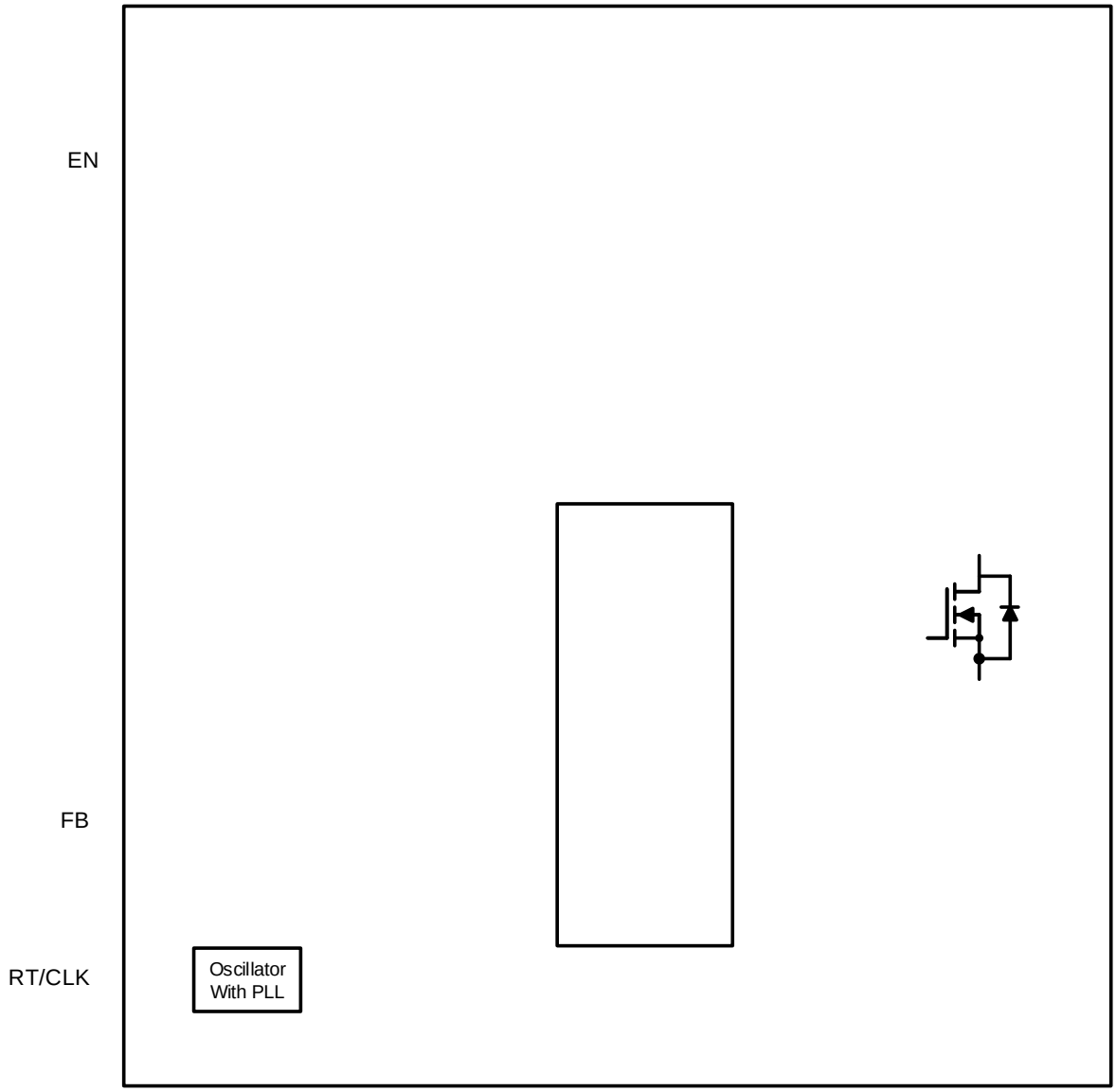
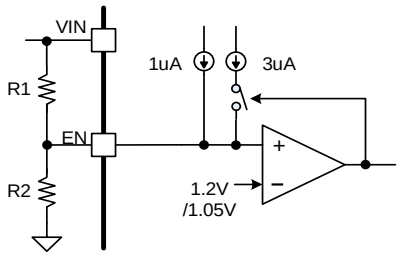
4.2V-60V Vin, 2A, High Efficiency Step-down DCDC Converter with Programmable Frequency

-
-
-
-
-
-
-
-
-
-
-
-
-
-
-
-

(1)
(2)




EN
FB
RT/CLK
Oscillator
With PLL


VIN
R1
EN
R2
1uA
3uA
1.2V
/1.05V

±

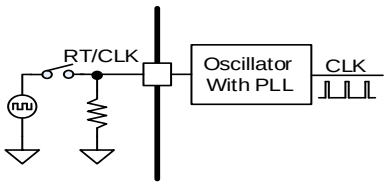

RT/CLK
Oscillator
With PLL
CLK

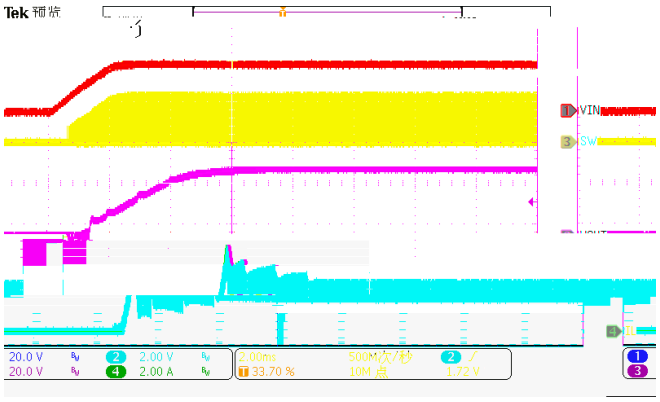
Table 1. R_5, R_6 Value for Common Output Voltage
(Room Temperature)

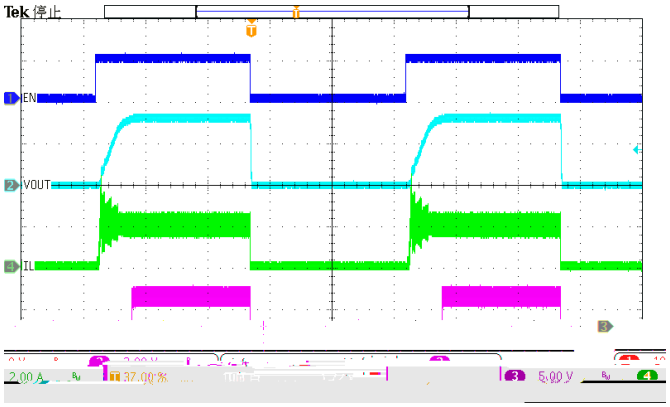
Table 2. R_{FSW} Value for Common Switching Frequencies
(Room Temperature)

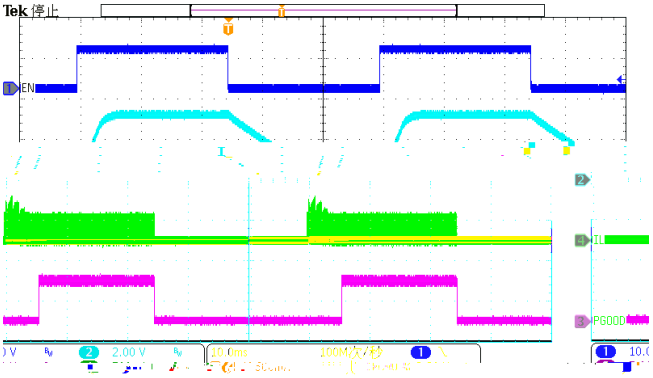
-
-
-
-
-

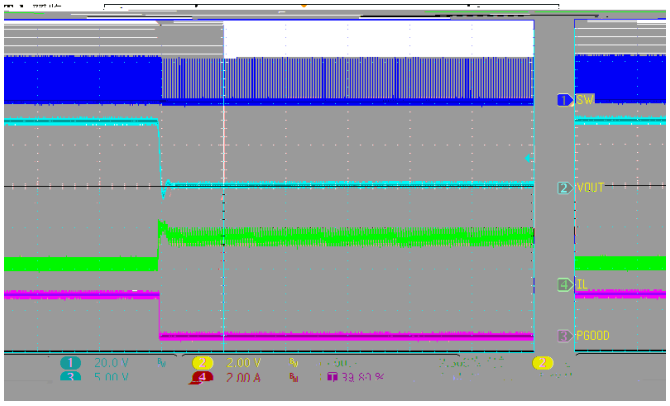
â Ç•6Sõ‘f‹Ü"y5

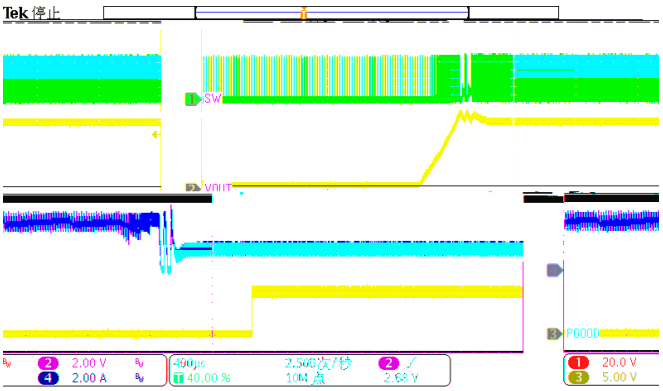
-
-
-
-
-
-

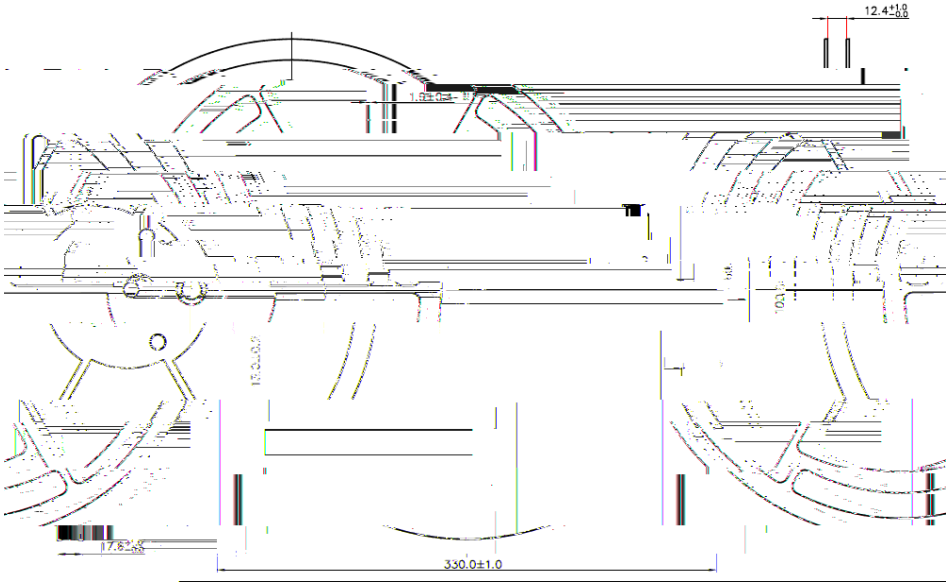

Tek 预览
VIN
SW
20.0 V
2.00 V
20.0 V
2.00 A
2.00ms
33.70 %
500M次/秒
10M 点
1.72 V

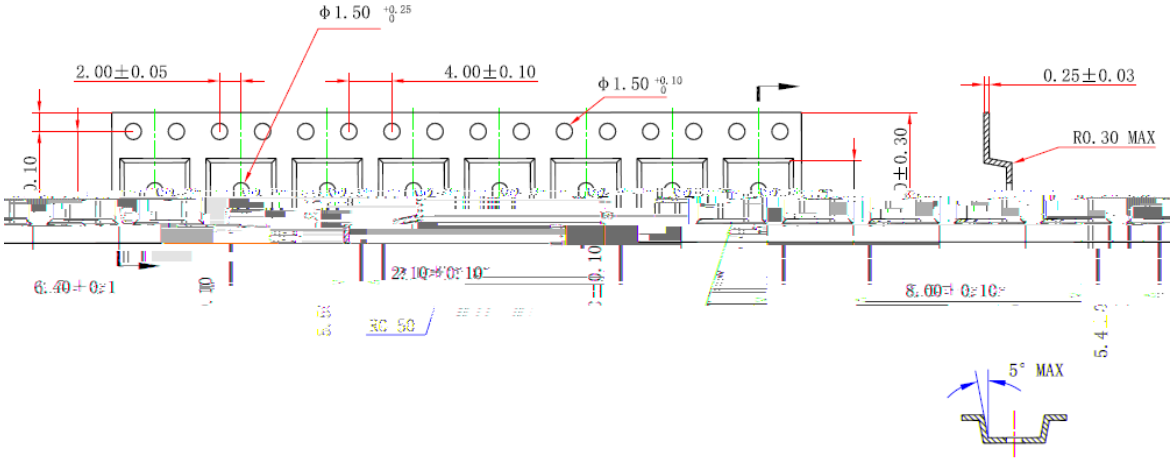

Tek 停止
EN
VOUT
IL
2.00 A
37.00 %
5.00 V


Tek 停止
EN
IL
PGOOD
2.00 V
10.0ms
100M次/秒


SW
VOUT
IL
PGOOD
20.0 V
5.00 V
2.00 V
2.00 A


Tek 停止
SW
VOUT
PGOOD
2.00 V
2.00 A
400µs
40.00 %
2.50G次/秒
10M 点
2.68 V
20.0 V
5.00 V


12.4+1.0 -0.0
330.0±1.0


φ1.50 +0.25 0
2.00±0.05
4.00±0.10
φ1.50 +0.10 0
0.25±0.03
R0.30 MAX
6.40±0.1
8.00±0.10
5° MAX