4.5V-60V Vin, 3.5A, High Efficiency Step-down DCDC Converter with Programmable Frequency

LM K

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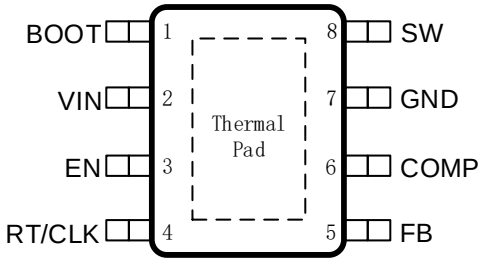
NAKAGF AKLG

NA G AF G E LAGF

KGDML E PÆ ME LAF K

HAF GF A M LAGF

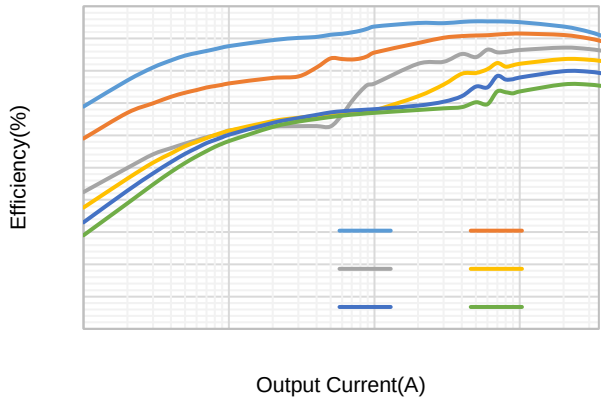


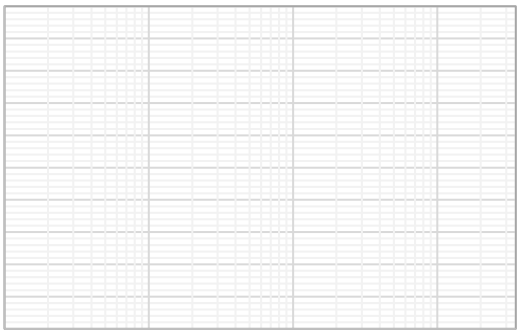
(1)

(2)

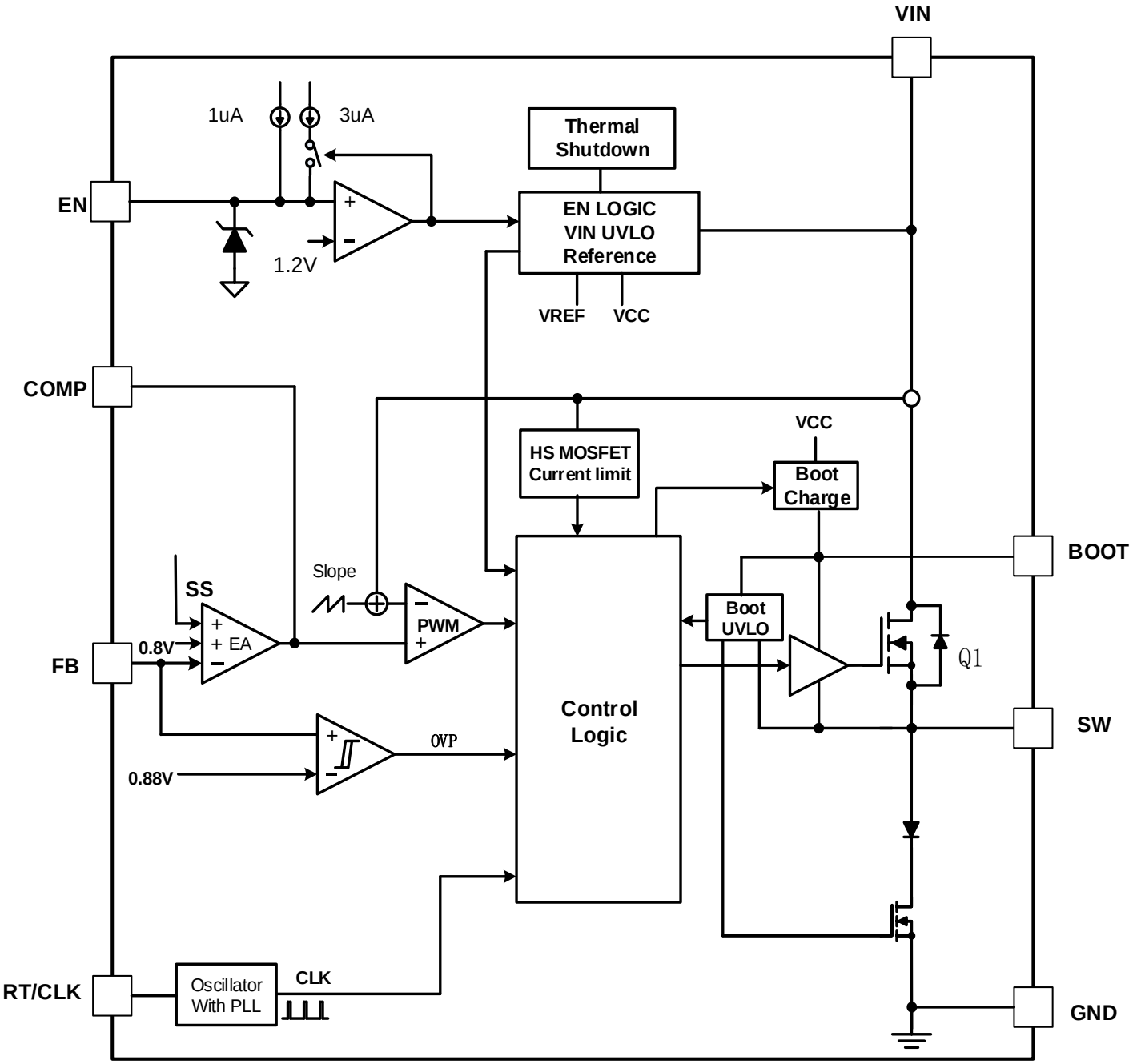
HAF MF LAGFK

L HA D L AKL A K





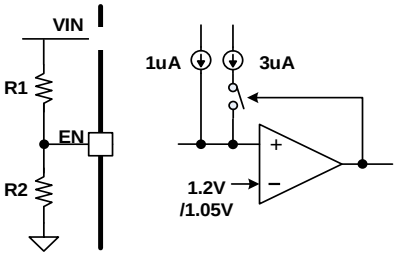
MF LAGF D DG C A E



GH LAGF

$$7 \quad \frac{R_{nøa} \quad 431 \quad R_W}{9\ 741}$$

$$4 \quad \frac{7 \quad 1}{R_W \quad 7 \quad 1 \quad 0}$$



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$\pm$

$$B \quad PKL \quad \frac{R_{K \quad P}}{R_{NAB}} \quad 7 \quad B \quad KP$$

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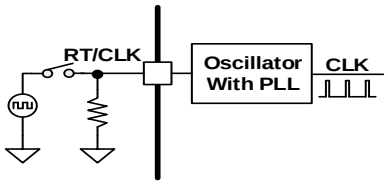
-

$$P \quad G \quad \frac{7}{G} \quad 0$$

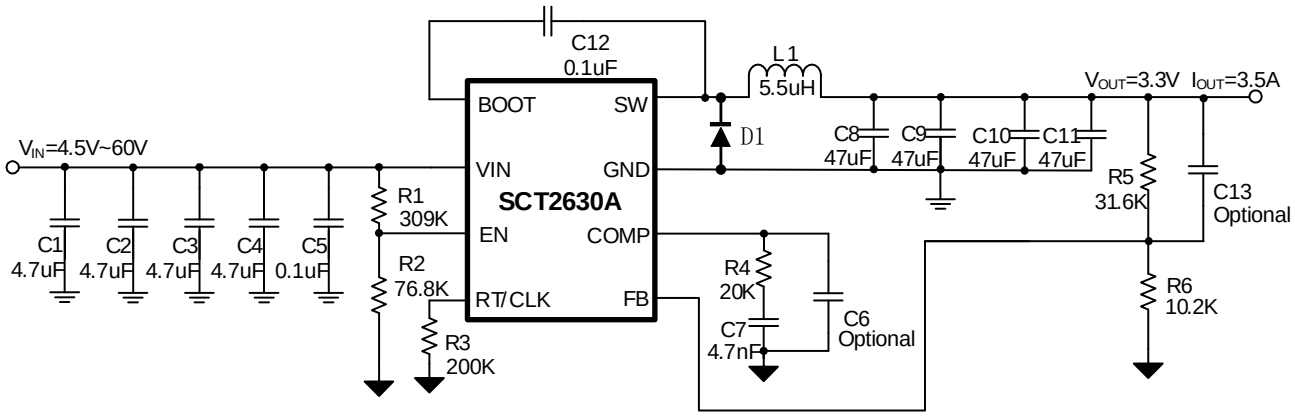


os W o d

ER / i ej K

E HEI EP R K P OD KNP R Z / R E I T E HEI EP O kj R Z

HHDA LAGF AF G E LAGF



1 $\frac{R_{K\ \ P}}{R_{NAB}}$ 7 2

-

$\frac{7}{s}$

-

7 $\frac{R_{nøa} \quad 431 \quad R_W}{9\ 741}$ 4

4 $\frac{7\ \ 1}{R_W \quad 7\ \ 1 \quad 0}$ 5

$$E_{HILL} \quad \frac{R_{K\ P} \quad R_E \quad R_{K\ P}}{R_E \quad H \quad {}_{OS}}$$

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$$H_{I\ E} \quad \frac{R_{K\ P}}{{}_{OS} \quad HE \quad E_{K\ P\ i\ Wt}} \quad 7 \quad \frac{R_{K\ P}}{R_{E\ \ i\ Wt}}$$

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$$E_{HILA\ G} \quad \frac{E_{K\ P} \quad \frac{E_{HILL}}{4}}{E_{HNI\ O} \quad E_{K\ P} \quad \frac{7}{74} \quad E_{HILL}}$$

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-

$$L \quad \frac{R_{E\ I\ T} \quad R_{K\ P} \quad E_{K\ P} \quad R_Z}{R_{E\ I\ T}} \quad \frac{f \quad OS \quad R_E \quad R_Z}{4}$$

NI O K $\frac{\text{K}}{\text{K}}$ 7 $\frac{\text{K}}{\text{K}}$

NI O 1 K

K K 7 K

OS

K

- K
-
-
-
-
-

A C

-
-

$$R \quad A \quad C_{BD\ O} \quad \frac{R_B}{E_{K\ P}}$$

$$L \quad \frac{7}{4 \quad KA \quad 3} \quad \frac{C_A}{4 \quad A \quad 3}$$

$$L \quad \frac{7}{4 \quad HK \quad K\ P} \quad \frac{E_{K\ P}}{4 \quad R_{K\ P} \quad K\ P}$$

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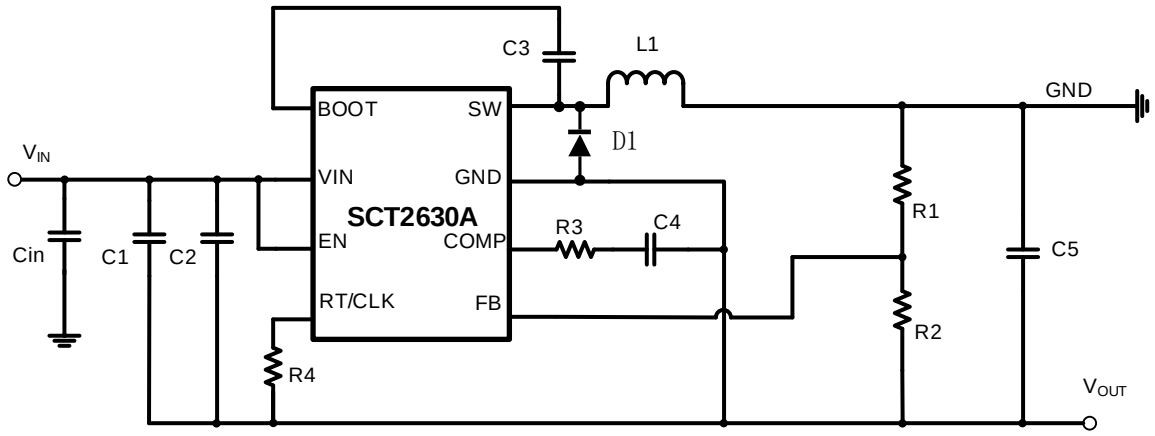
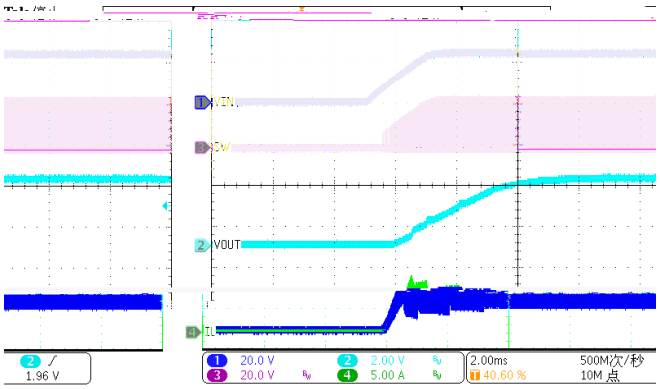
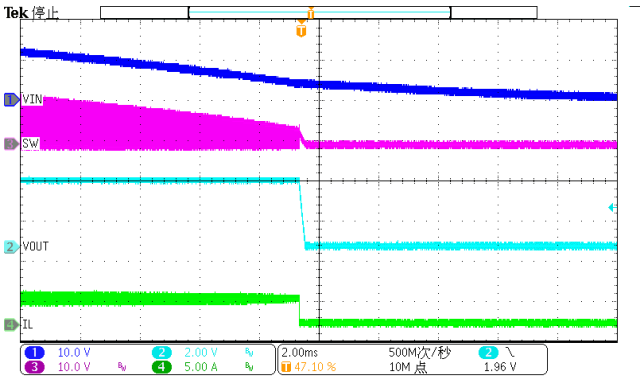
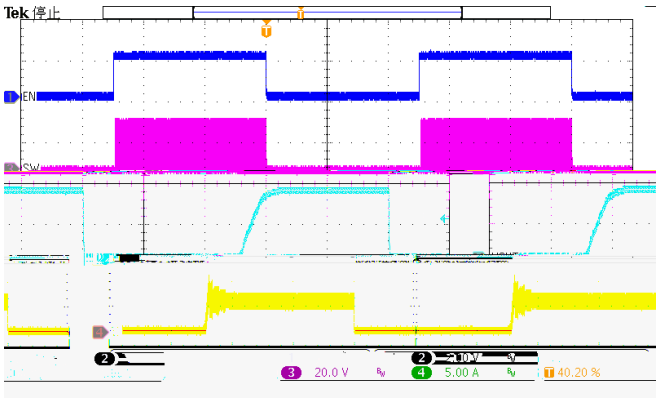
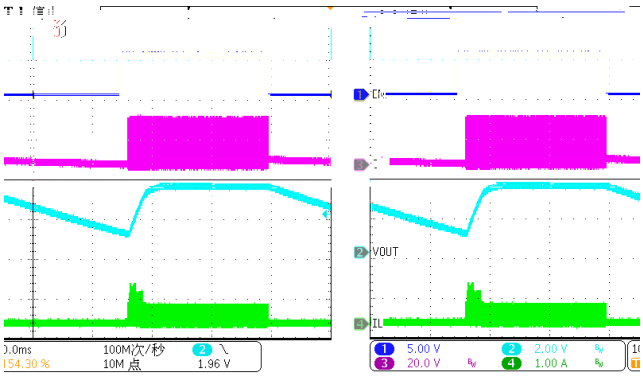
-
-

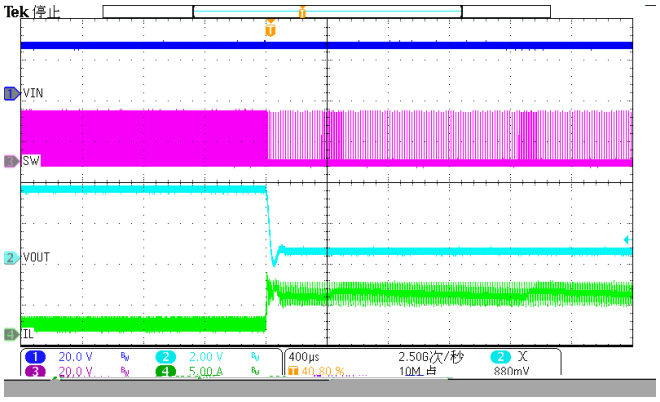

C3
L1
GND
BOOT
SW
D1
VIN
VIN
GND
SCT2630A
R1
EN
COMP
R3
C4
C5
Cin
C1
C2
RT/CLK
FB
R2
R4
VOUT

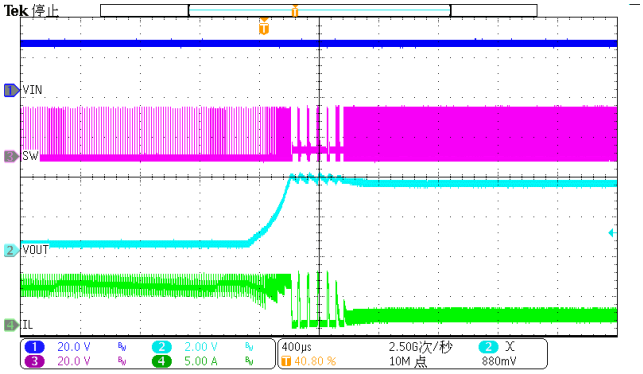

VIN
SW
VOUT
IL
20.0 V
20.0 V
2.00 V
5.00 A
2.00ms
40.60 %
500M次/秒
10M 点
1.96 V

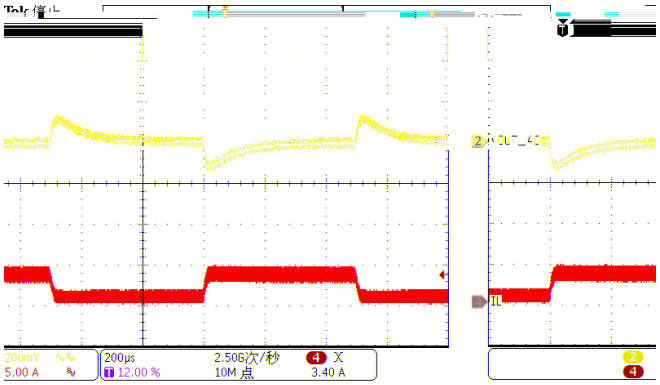

Tek 停止
VIN
SW
VOUT
IL
10.0 V
10.0 V
2.00 V
5.00 A
2.00ms
47.10 %
500M次/秒
10M 点
1.96 V

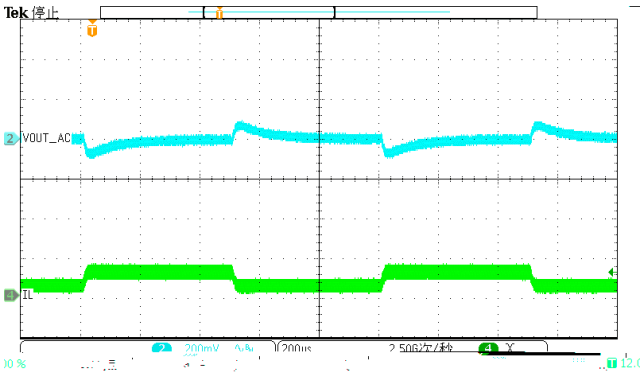

Tek 停止
EN
SW
20.0 V
5.00 A
40.20 %

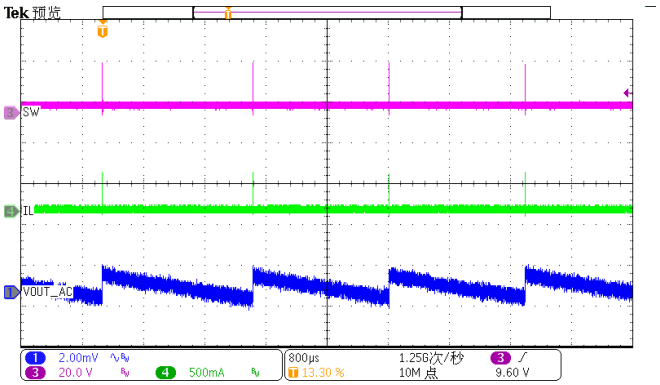

VOUT
IL
100M次/秒
10M 点
1.96 V
5.00 V
2.00 V
20.0 V
1.00 A

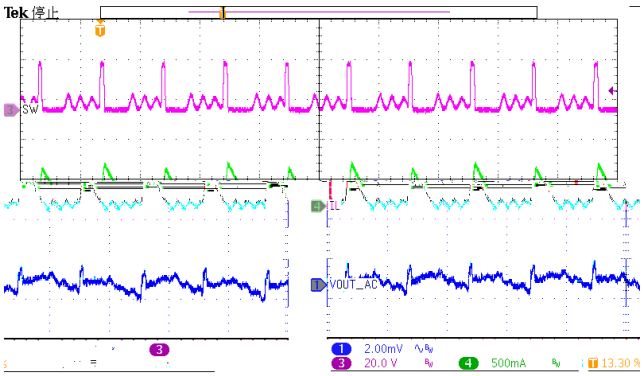

Tek 停止
VIN
SW
VOUT
IL
20.0 V
20.0 V
2.00 V
5.00 A
400µs
40.80 %
2.50G次/秒
10M 点
880mV

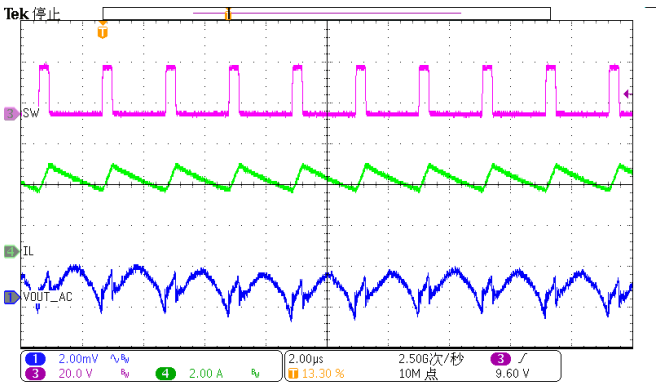

Tek 停止
VIN
SW
VOUT
IL
20.0 V
20.0 V
2.00 V
5.00 A
400µs
40.80 %
2.50G次/秒
10M 点
880mV

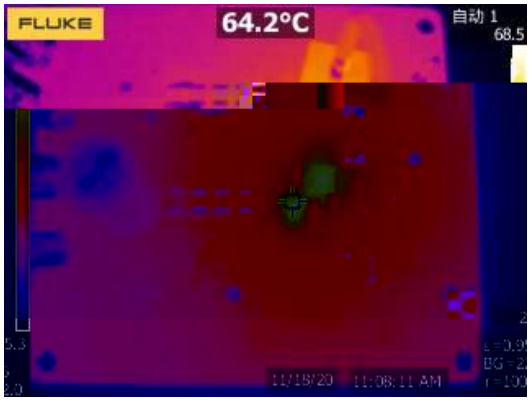

VOUT_AC
IL
200mV
5.00 A
200µs
12.00 %
2.50G次/秒
10M 点
3.40 A


Tek 停止
VOUT_AC
IL

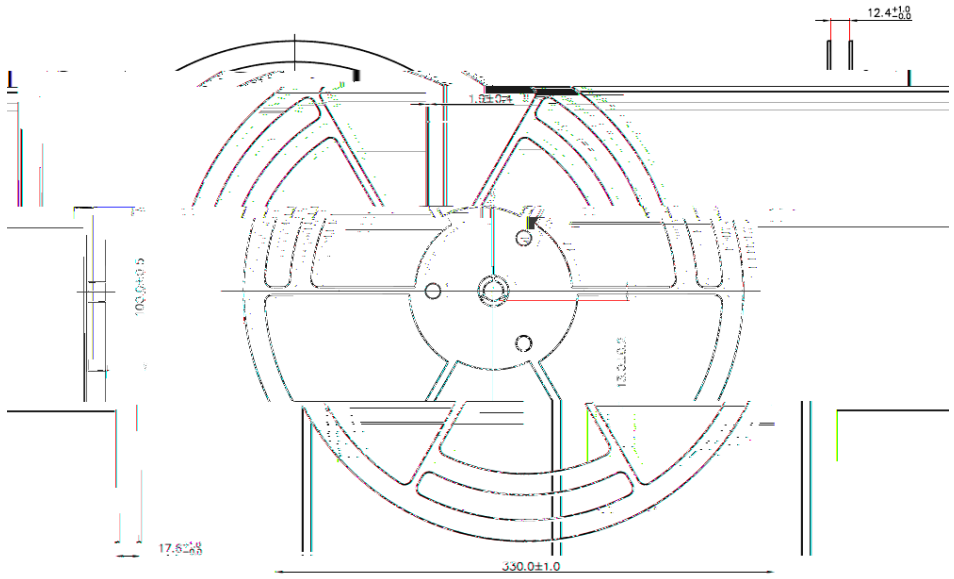
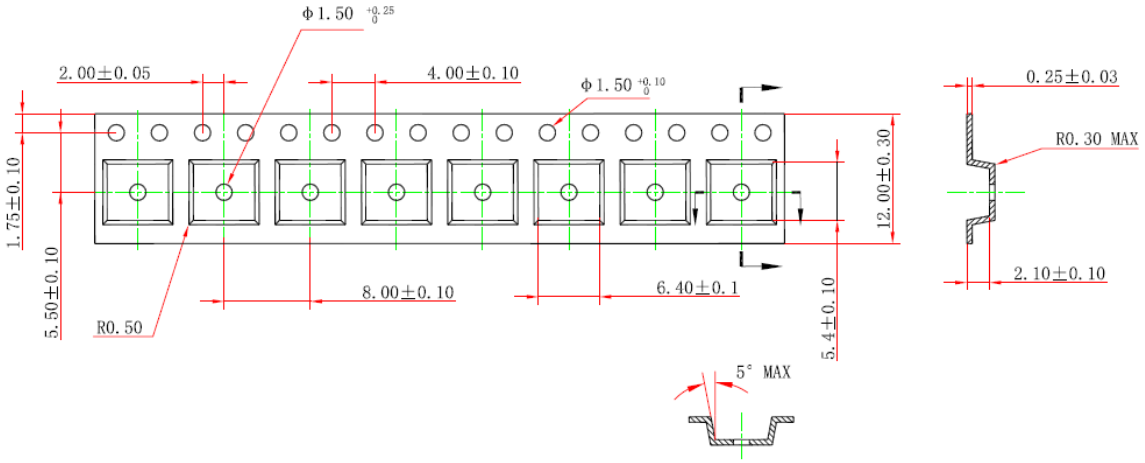

Tek 预览
SW
IL
VOUT_AC
2.00mV
20.0 V
500mA
800µs
13.30 %
1.25G次/秒
10M 点
9.60 V


Tek 停止
SW
IL
VOUT_AC
2.00mV
20.0 V
500mA


Tek 停止
SW
IL
VOUT_AC
2.00mV
20.0 V
2.00 A
2.00µs
13.30 %
2.50G次/秒
10M 点
9.60 V


FLUKE
64.2°C
自动 1
68.5
11/18/20
11:08:11 AM

1.

H C ÆF G E LÆGF

L H F DÆF G E LÆGF