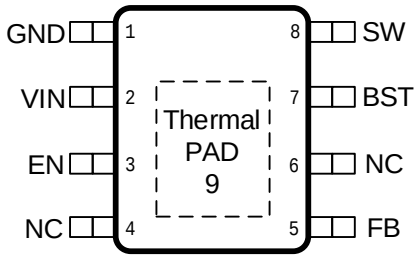
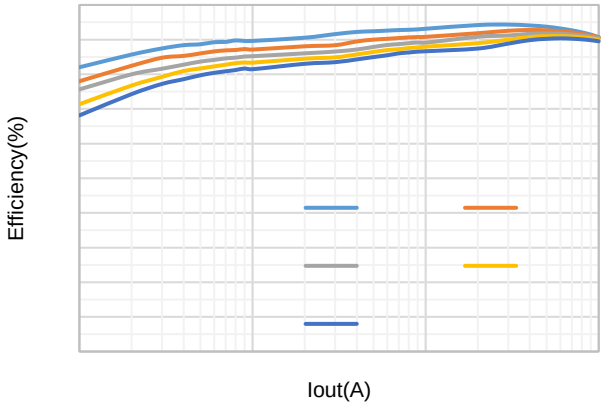
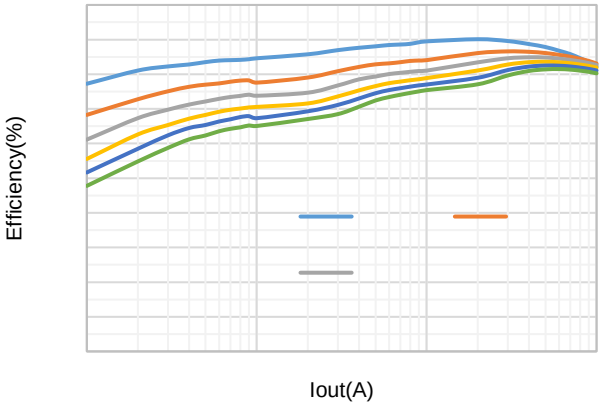
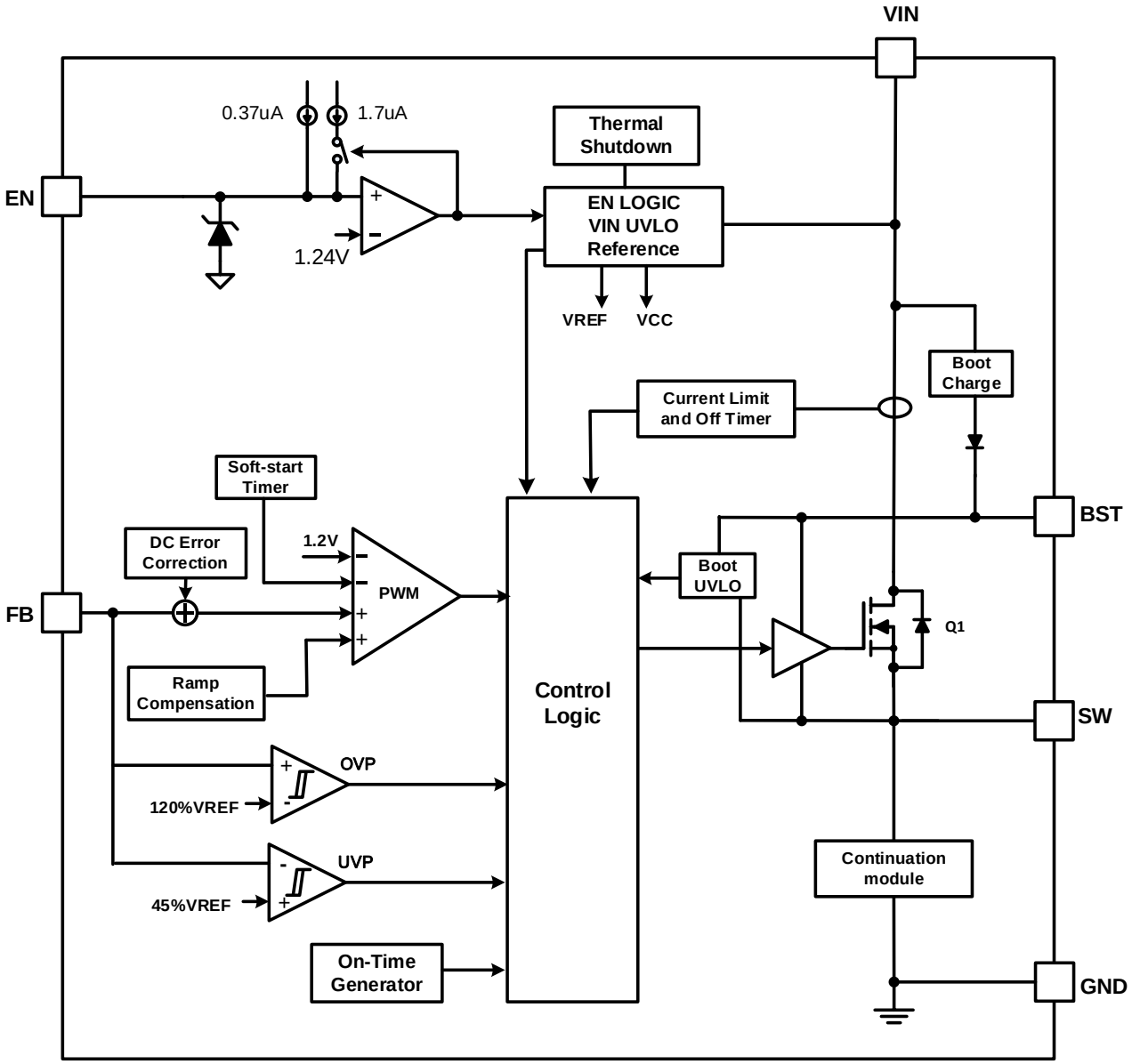
| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | | | |

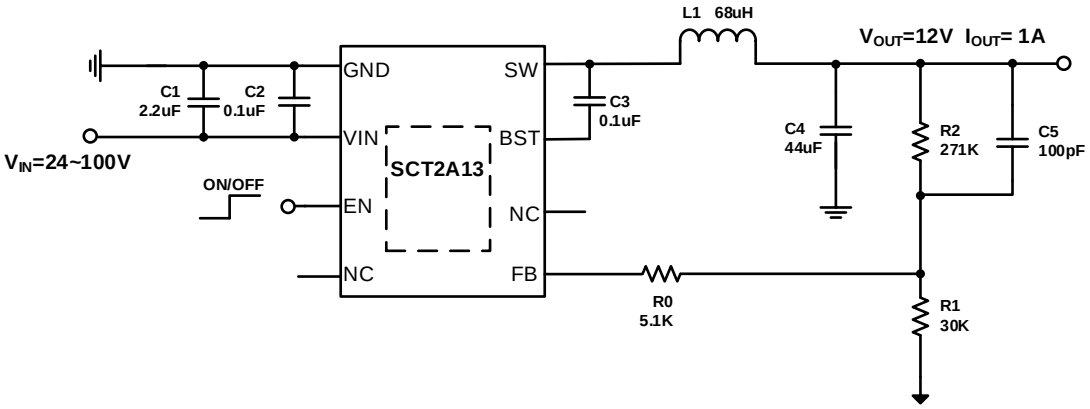
| | | | |
|---|---|---|---|
| | | | |
| | | | |
| | | | |


GND
1
8
SW
VIN
2
7
BST
Thermal
PAD
9
EN
3
6
NC
NC
4
5
FB


Efficiency(%)
Iout(A)


Efficiency(%)
Iout(A)


VIN
0.37uA
1.7uA
Thermal Shutdown
EN
EN LOGIC
VIN UVLO
Reference
1.24V
VREF
VCC
Boot Charge
Current Limit and Off Timer
Soft-start Timer
BST
DC Error Correction
1.2V
PWM
Boot UVLO
FB
Q1
Ramp Compensation
Control Logic
SW
OVP
120%VREF
UVP
45%VREF
Continuation module
On-Time Generator
GND


L1 68uH
VOUT=12V IOUT= 1A
GND
SW
C1
2.2uF
C2
0.1uF
C3
0.1uF
VIN
BST
SCT2A13
C4
44uF
R2
271K
C5
100pF
VIN=24~100V
ON/OFF
EN
NC
NC
FB
R0
5.1K
R1
30K

| | |
|---|---|
| | |
| | |
| | |
| | |
| | |
| | |

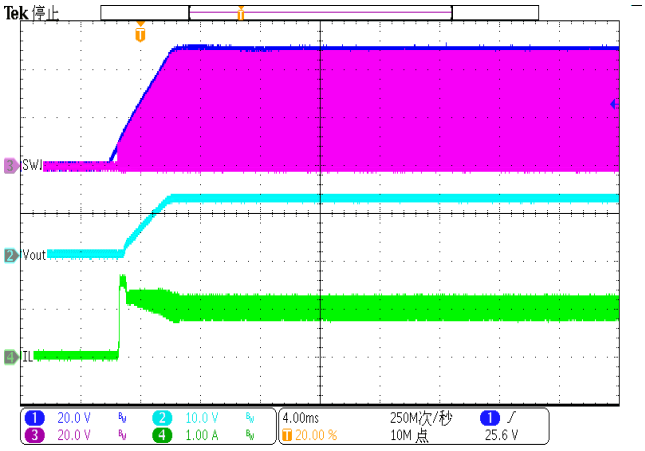
Table 1. $R_1$, $R_2$Value for Common Output Voltage
(Room Temperature)

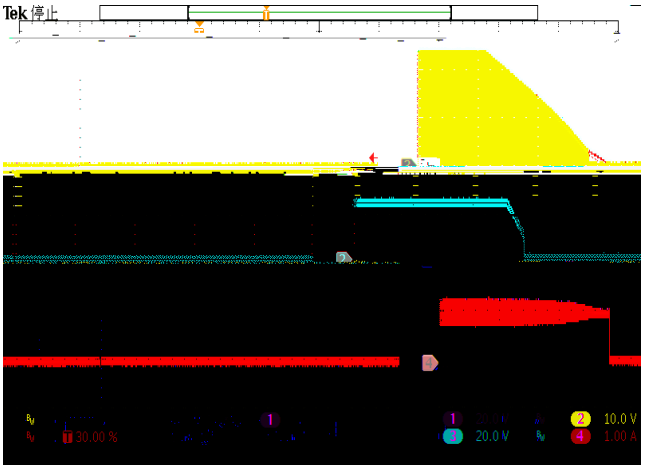
- 
- 
- 
- 
- 

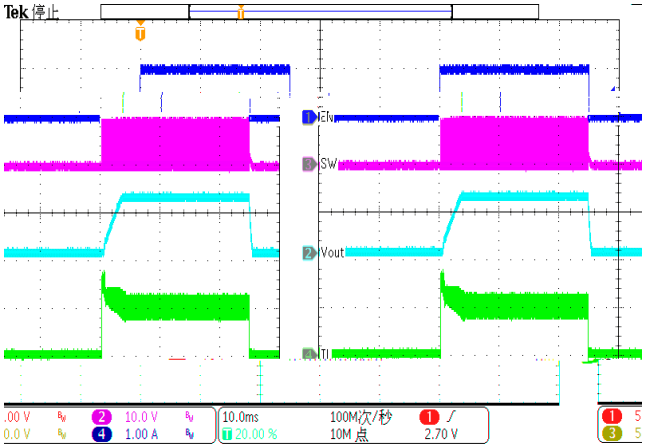
- 
- 
- 
- 
- 
- 

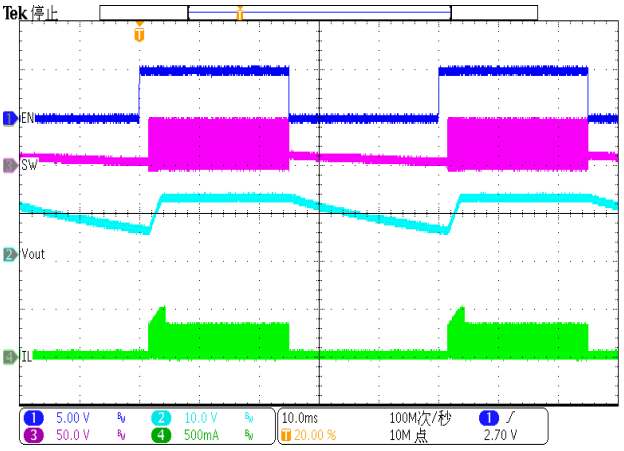
- 
- 
- 
- 

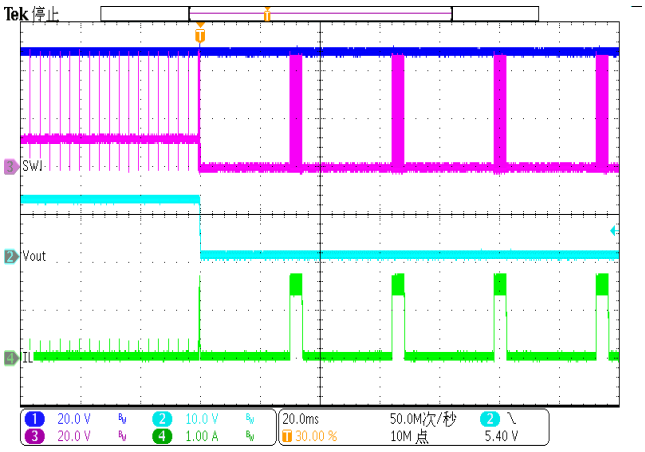
| | | | | | |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |

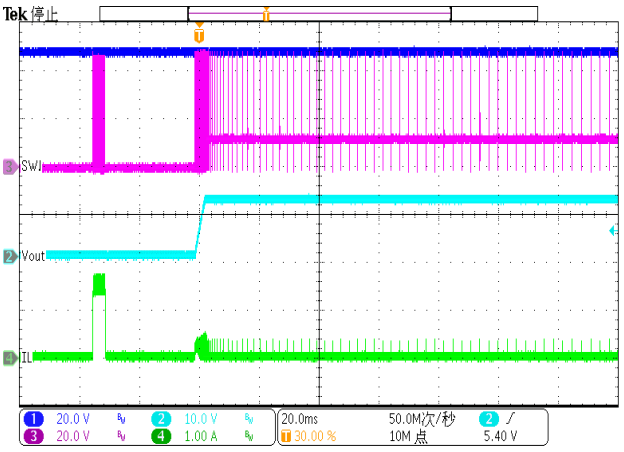

Tek 停止
SW
Vout
IL
20.0 V
10.0 V
20.0 V
1.00 A
4.00ms
250M次/秒
20.00 %
10M 点
25.6 V

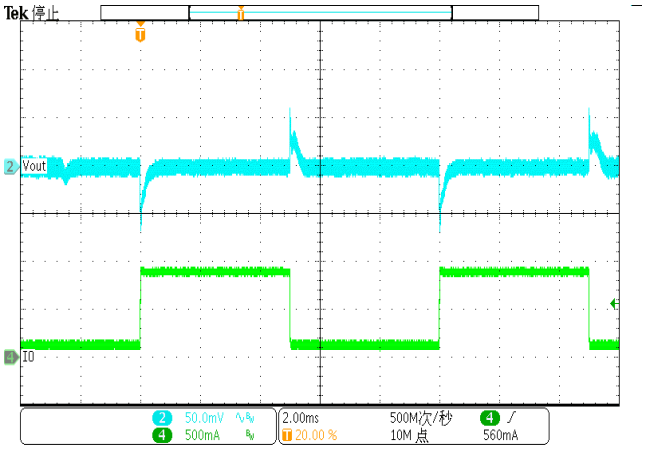

Tek 停止
30.00 %
20.0 V
10.0 V
1.00 A

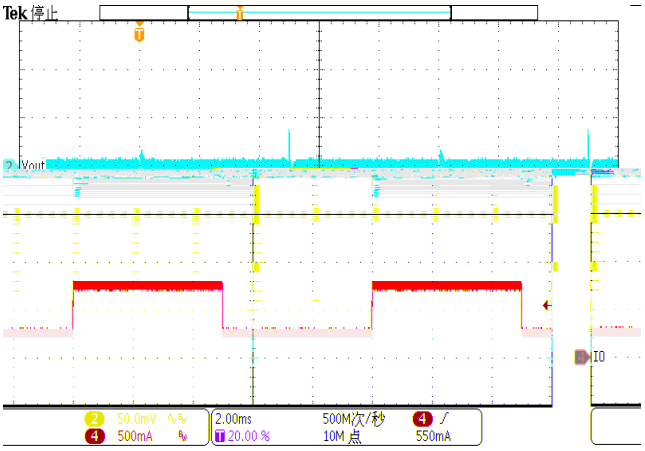

Tek 停止
EN
SW
Vout
IL
10.0 V
1.00 A
10.0ms
100M次/秒
20.00 %
10M 点
2.70 V

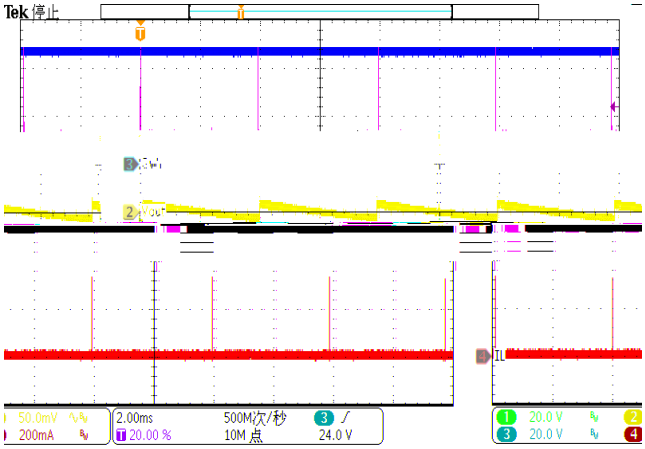

Tek 停止
EN
SW
Vout
IL
5.00 V
50.0 V
10.0 V
500mA
10.0ms
100M次/秒
20.00 %
10M 点
2.70 V

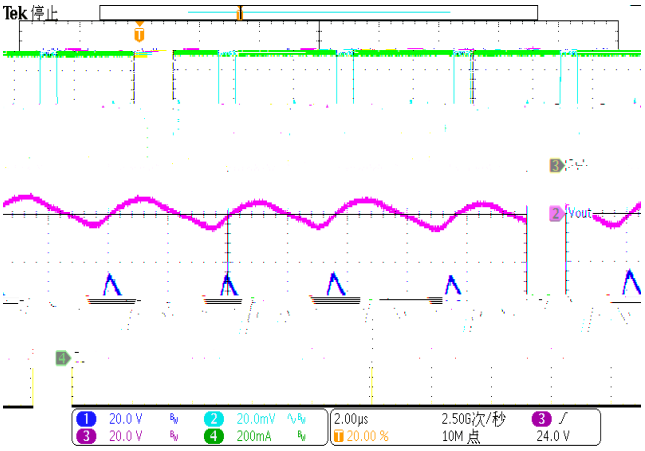

Tek 停止
SW
Vout
IL
20.0 V
10.0 V
20.0 V
1.00 A
20.0ms
50.0M次/秒
30.00 %
10M 点
5.40 V

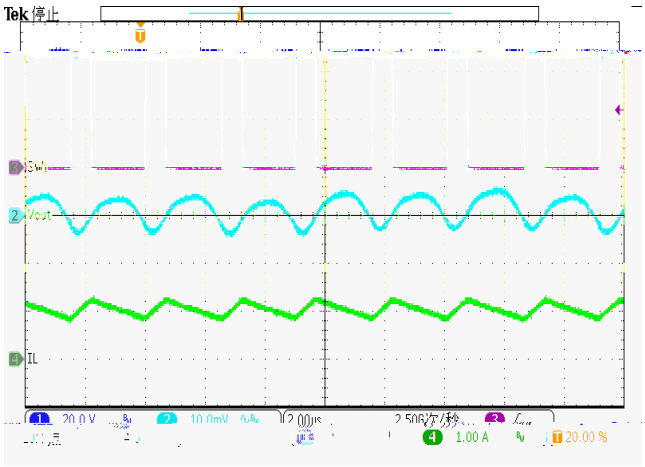

Tek 停止
SW
Vout
IL
20.0 V
10.0 V
20.0 V
1.00 A
20.0ms
50.0M次/秒
30.00 %
10M 点
5.40 V


Tek 停止
Vout
IO
50.0mV
500mA
2.00ms
20.00 %
500M次/秒
10M 点
560mA

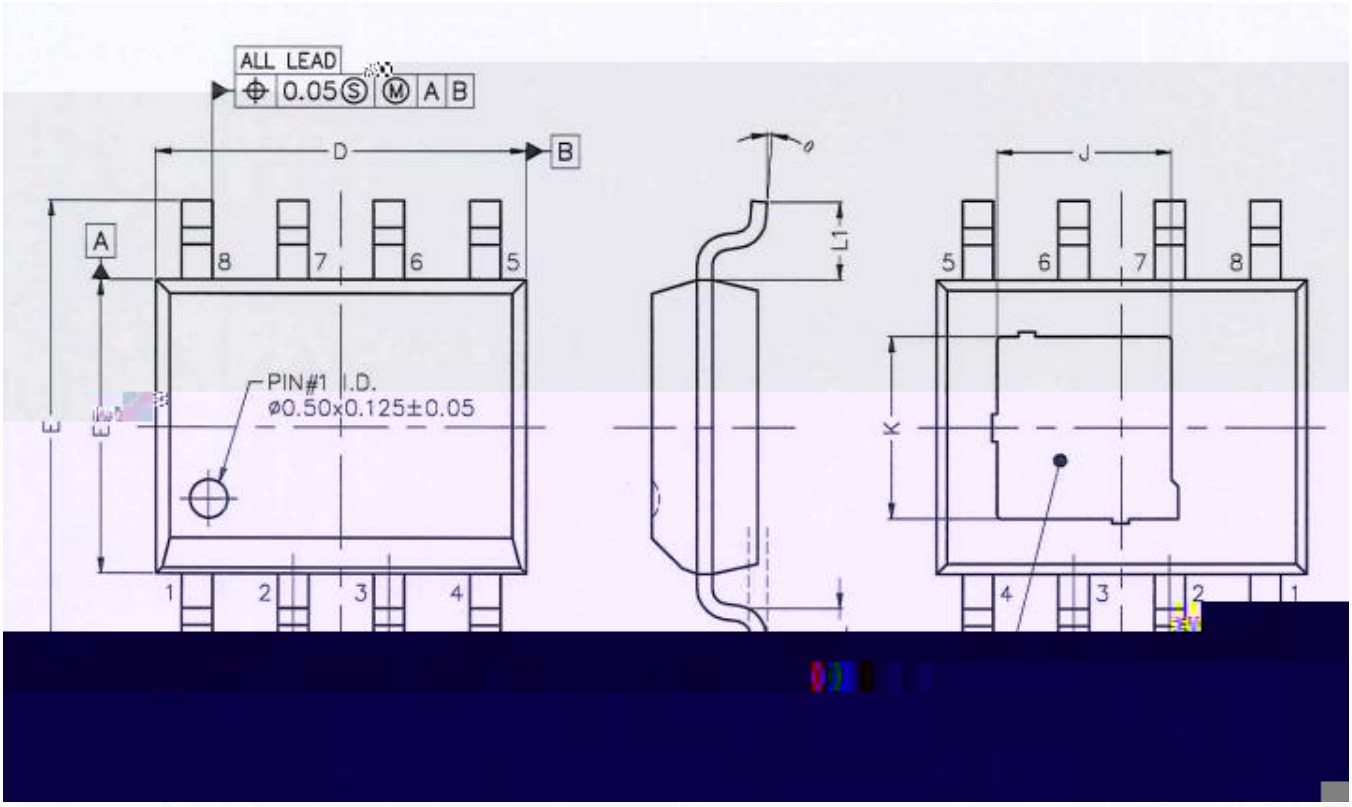

Tek 停止
Vout
IO
50.0mV
500mA
2.00ms
20.00 %
500M次/秒
10M 点
550mA

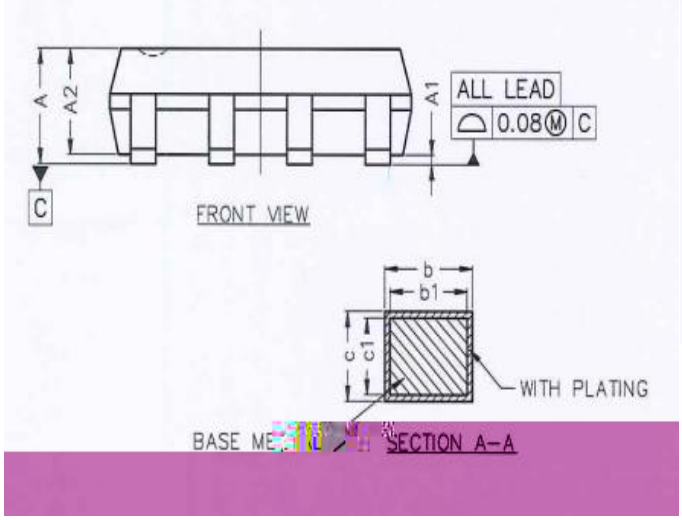

Tek 停止
SW
Vout
IL
50.0mV
200mA
2.00ms
20.00 %
500M次/秒
10M 点
24.0 V
20.0 V
20.0 V


Tek 停止
SW
Vout
20.0 V
20.0 V
20.0mV
200mA
2.00µs
20.00 %
2.50G次/秒
10M 点
24.0 V

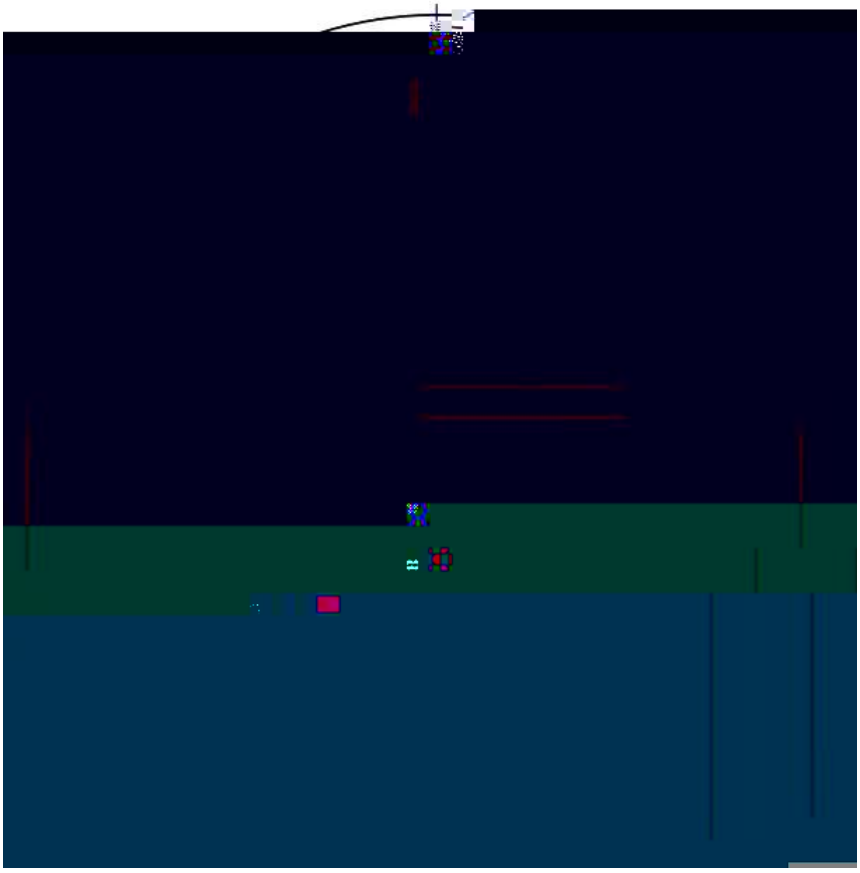

Tek 停止
SW
Vout
IL
20.0 V
10.0mV
2.00µs
2.50G次/秒
1.00 A
20.00 %

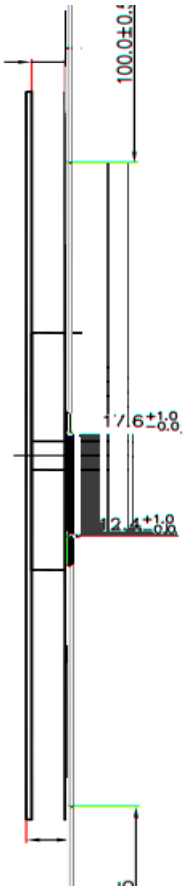
FLUKE
70.1°C
自动 1
74.5
26.6
ε=0.95
BG=22.0
τ=100%
8/23/24
11:47:38 AM

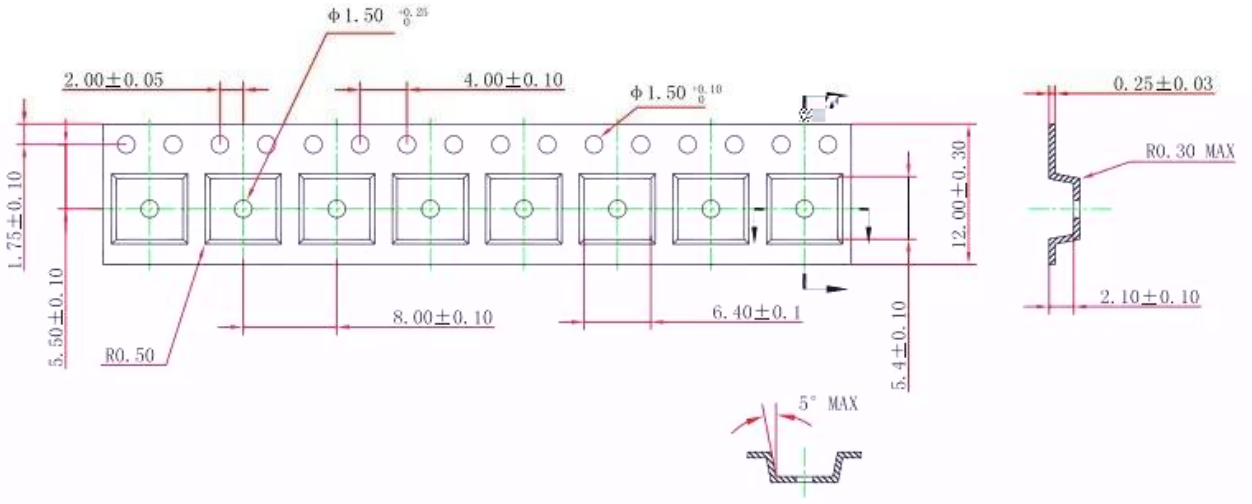
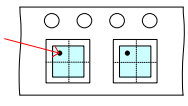



| | | SYMBOL | MIN | NOM | MAX |
|---|---|---|---|---|---|
| TOTAL THICKNESS | | A | – | – | 1.75 |
| STAND OFF | | A1 | 0.05 | 0.125 | 0.20 |
| MOLD TOTAL THICKNESS | | A2 | 1.30 | 1.40 | 1.60 |
| LEAD WIDTH | | b | 0.31 | – | 0.53 |
| LEAD WIDTH | | b1 | 0.30 | 0.40 | 0.50 |
| LEAD THICKNESS | | c | 0.20 | – | 0.24 |
| LEAD THICKNESS | | c1 | 0.19 | 0.203 | 0.21 |
| MOLD LENGTH | | D | 4.80 | 4.90 | 5.00 |
| MOLD WIDTH | | E1 | 3.80 | 3.90 | 4.00 |
| LEAD SPAN | | E | 5.80 | 6.00 | 6.20 |
| LEAD PITCH | | e | | 1.27 BSC | |
| EXPOSED PAD SIZE | X | J | 2.15 | 2.30 | 2.45 |
| | Y | K | 2.25 | 2.40 | 2.55 |
| LEAD LENGTH | | L1 | | 1.05 REF | |
| LEAD SOLE LENGTH | | L | 0.40 | 0.60 | 0.80 |
| LEAD FORM ANGLE | | θ | 0° | – | 8° |




100.0±0.
17.6+1.0 -0.0
12.4+1.0 -0.0


Φ1.50 +0.25 0
2.00±0.05
4.00±0.10
Φ1.50 +0.10 0
1.75±0.10
5.50±0.10
R0.50
8.00±0.10
6.40±0.1
12.00±0.30
5.4±0.10
5° MAX
0.25±0.03
R0.30 MAX
2.10±0.10