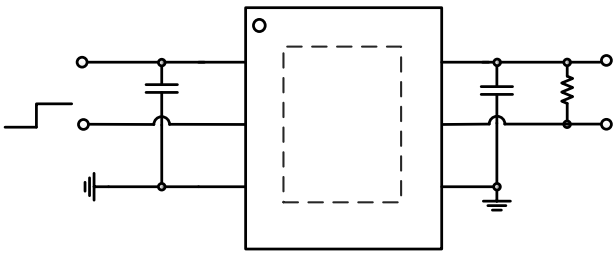
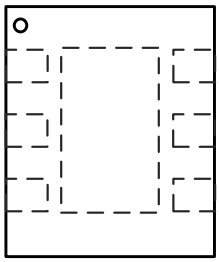
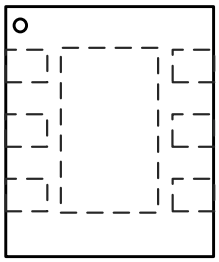
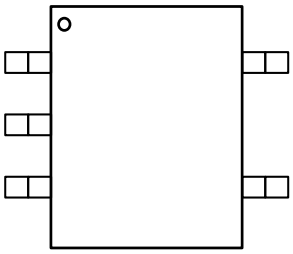
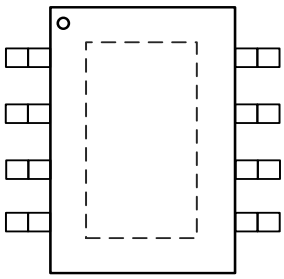
3V-40V Vin, 300mA, 2.4uA I_Q, Low-Dropout Regulator with PG Feature

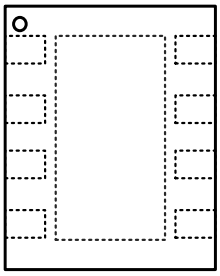


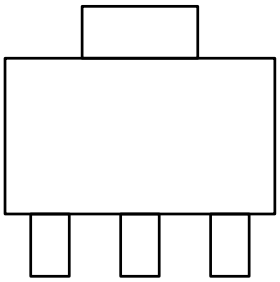








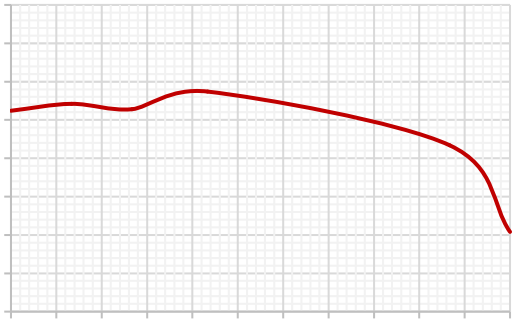


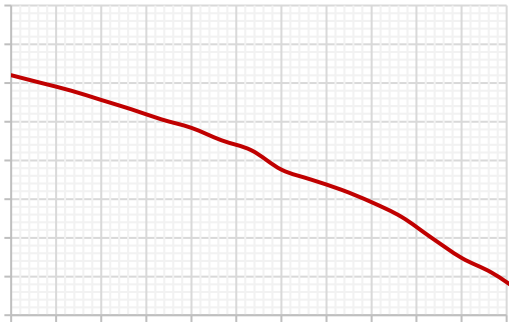


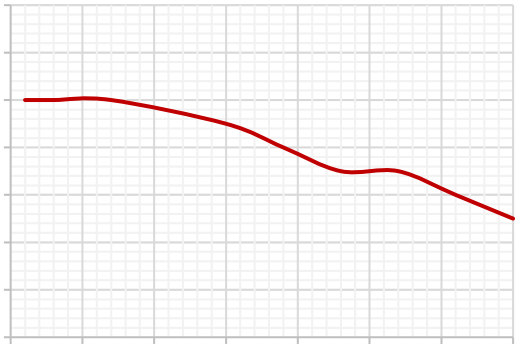
(1)

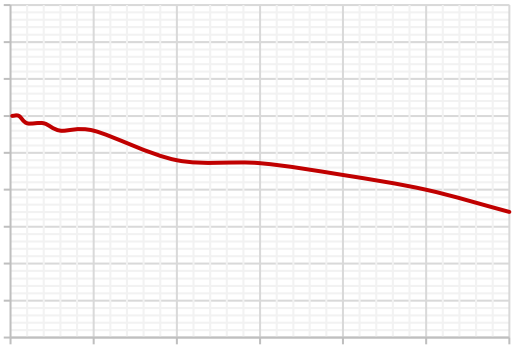
(2)

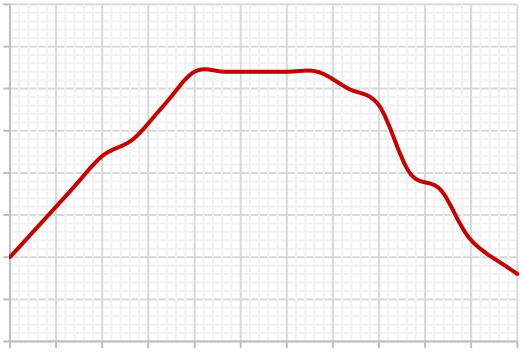
(3)

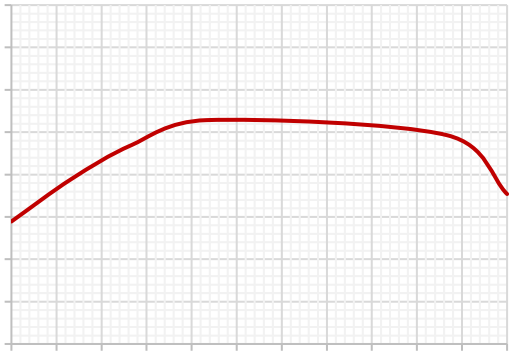


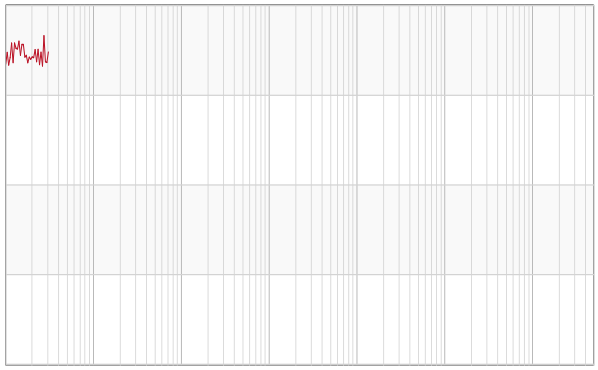


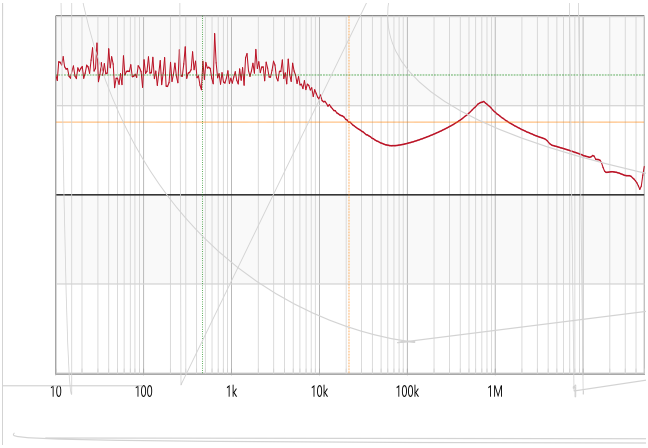


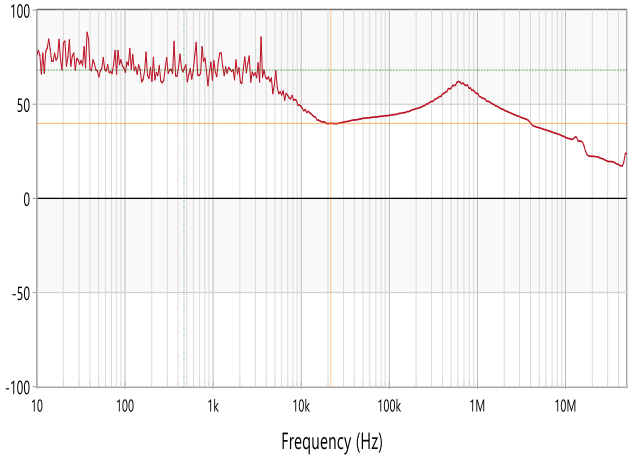


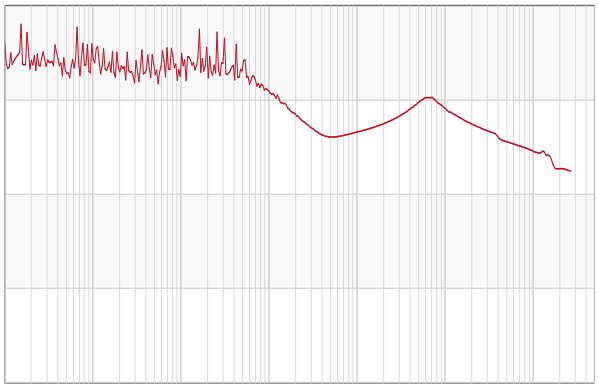


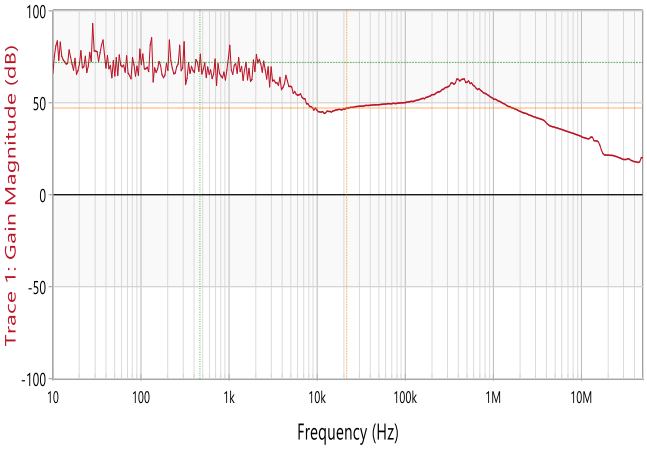


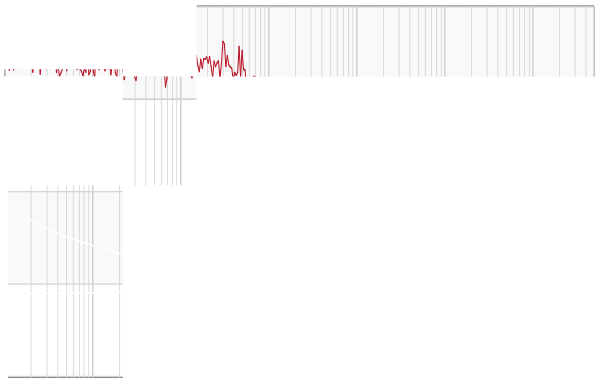


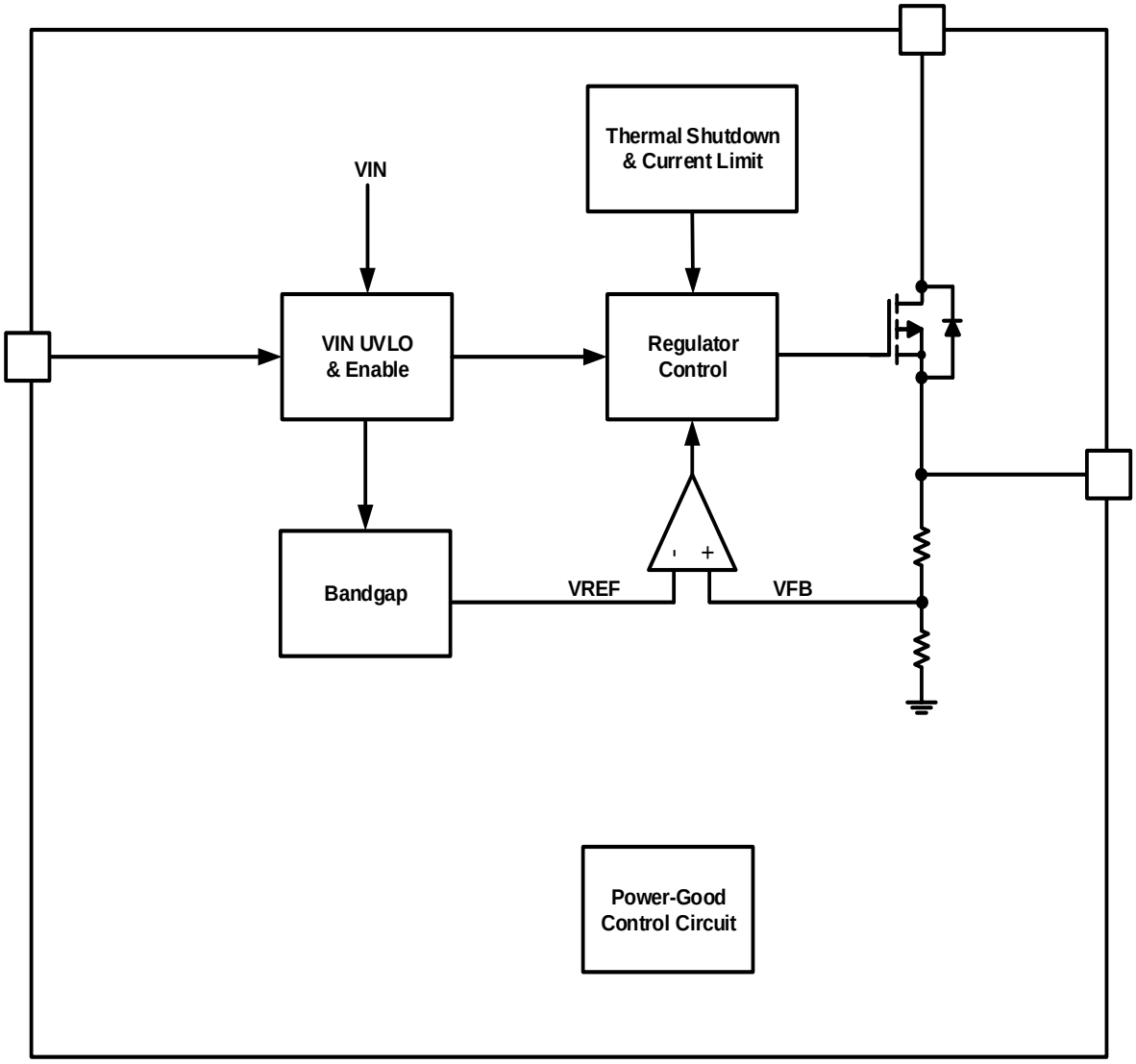

10
100
1k
10k
100k
1M

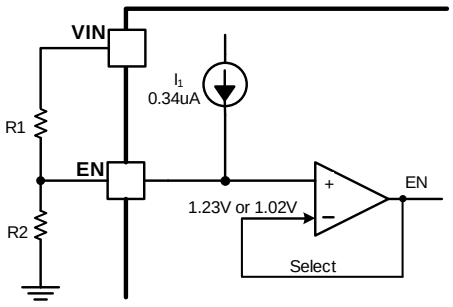

100
50
0
-50
-100
10
100
1k
10k
100k
1M
10M
Frequency (Hz)

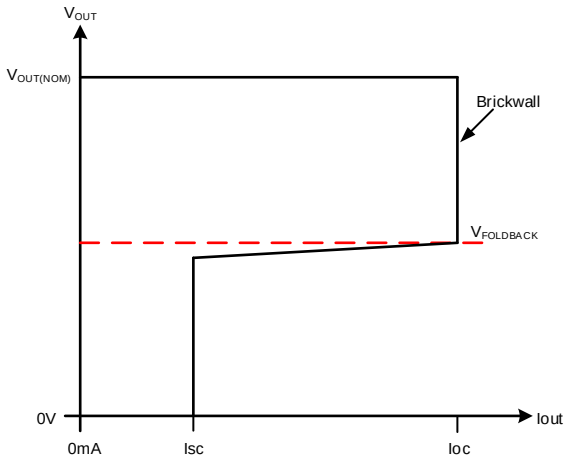


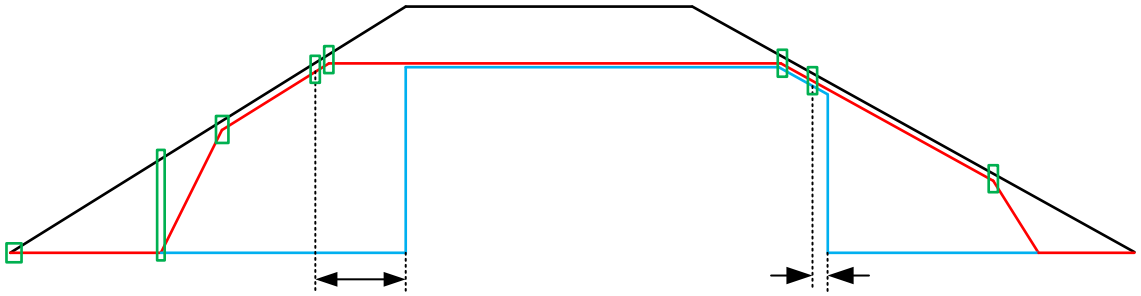

Trace 1: Gain Magnitude (dB)
100
50
0
-50
-100
10
100
1k
10k
100k
1M
10M
Frequency (Hz)

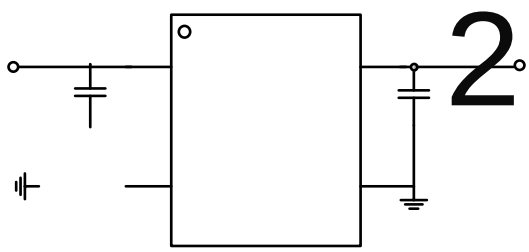


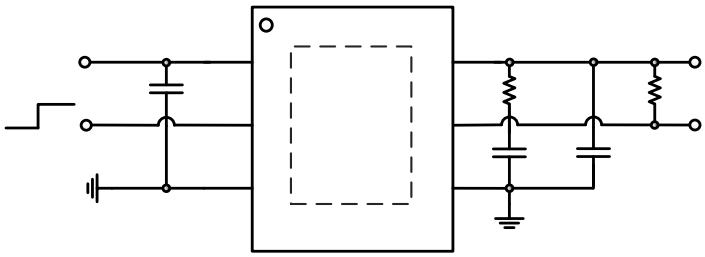

Thermal Shutdown
& Current Limit
VIN
VIN UVLO
& Enable
Regulator
Control
Bandgap
VREF
VFB
Power-Good
Control Circuit


VIN
I_1
0.34uA
R1
EN
EN
1.23V or 1.02V
R2
Select

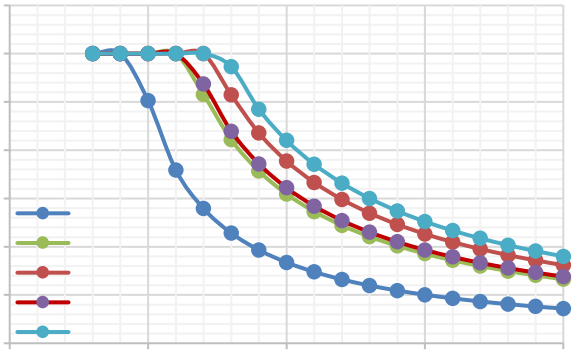

VOUT
VOUT(NOM)
Brickwall
VFOLDBACK
0V
Iout
0mA
Isc
Ioc

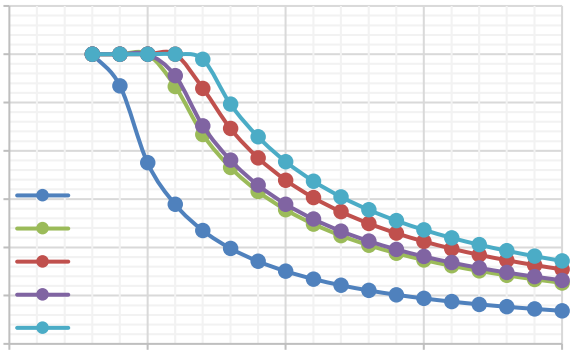


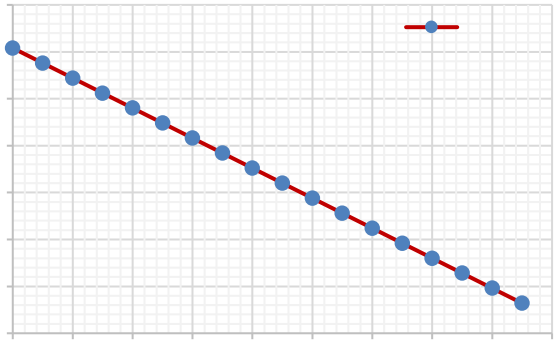

2

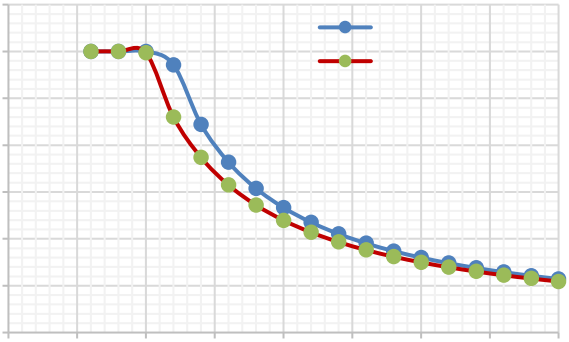


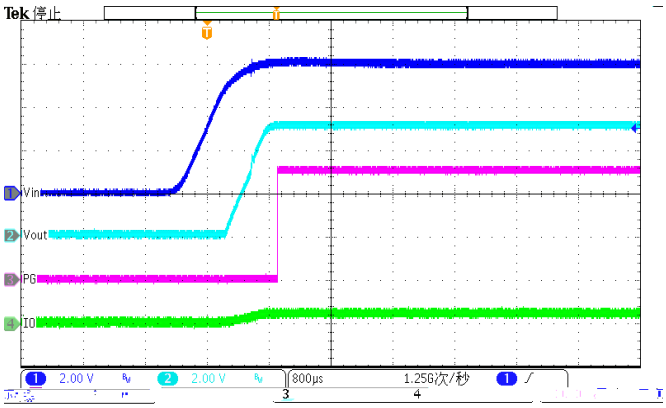
W$ I T (P p L Q R K@

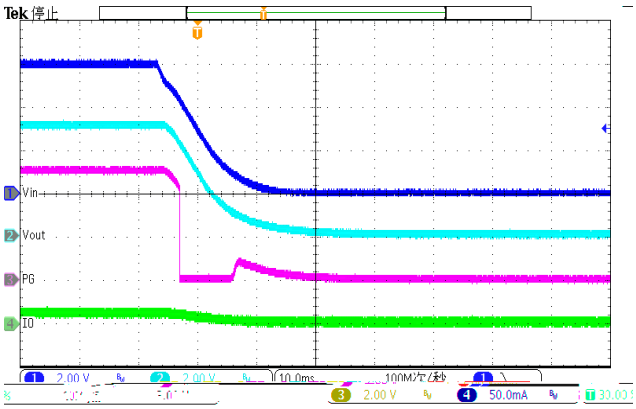


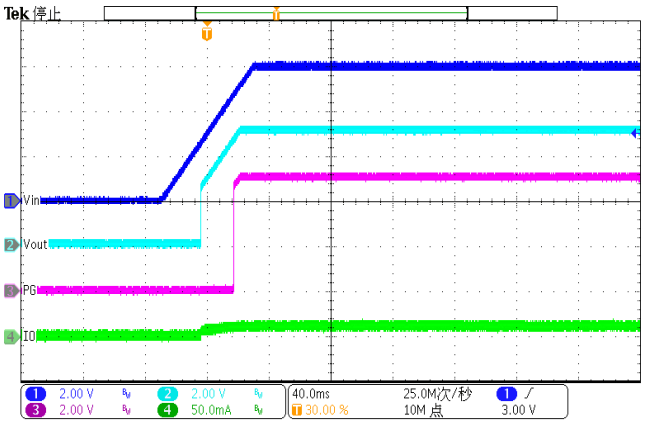


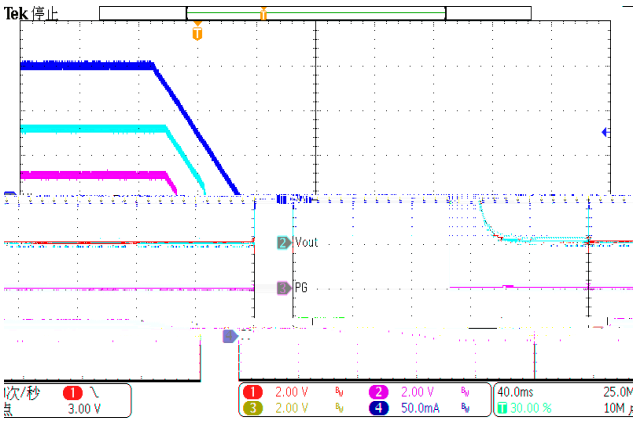


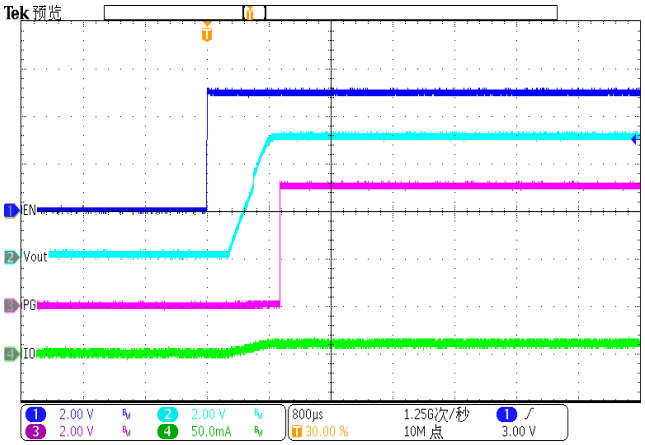


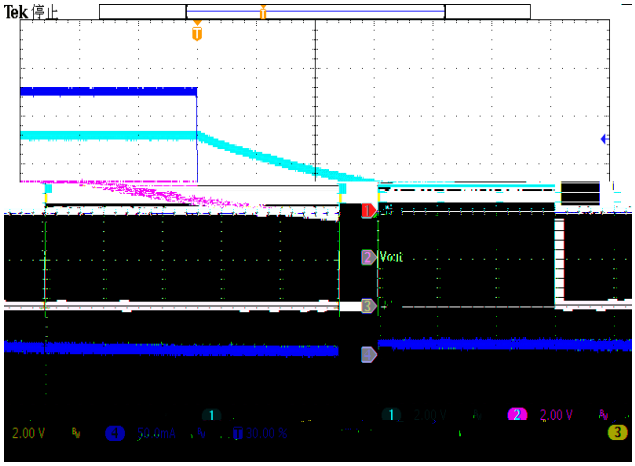

Tek 停止
Vin
Vout
PG
IO
2.00 V
800µs
1.25G次/秒

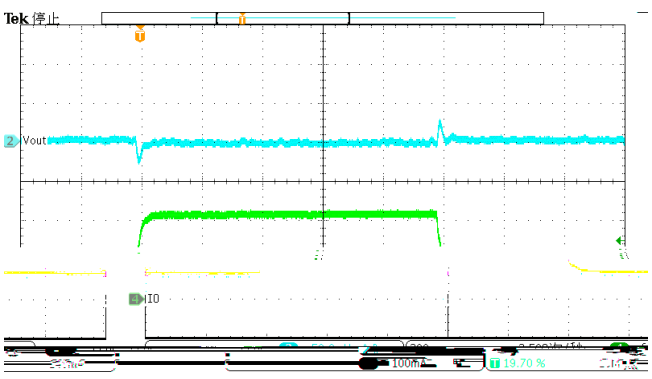

Tek 停止
Vin
Vout
PG
IO
2.00 V
50.0mA

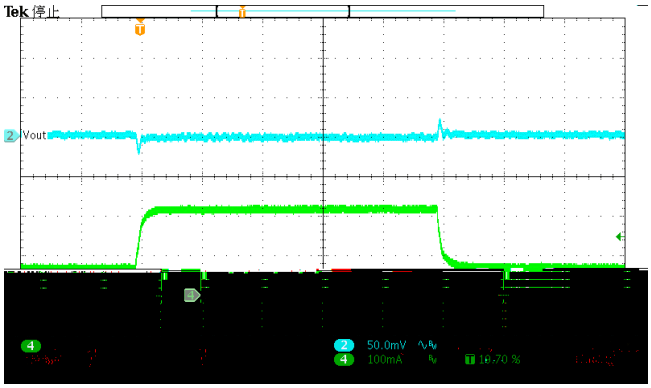

Tek 停止
Vin
Vout
PG
IO
2.00 V
40.0ms
25.0M次/秒
10M 点
3.00 V

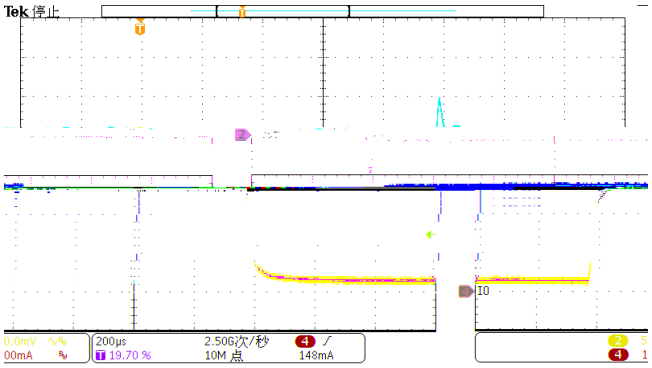

Tek 停止
Vout
PG
2.00 V
50.0mA
40.0ms
3.00 V

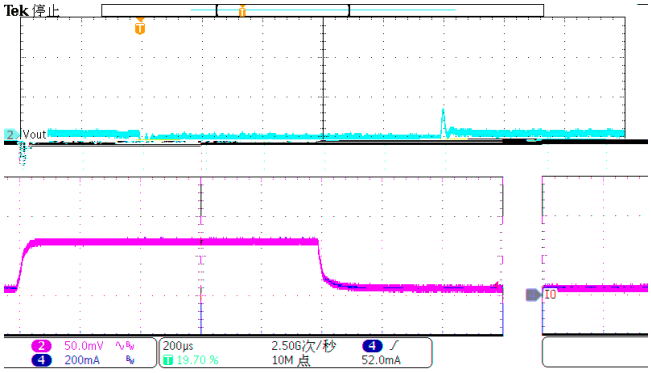

Tek 预览
EN
Vout
PG
IO
2.00 V
800µs
1.25G次/秒
10M 点
3.00 V

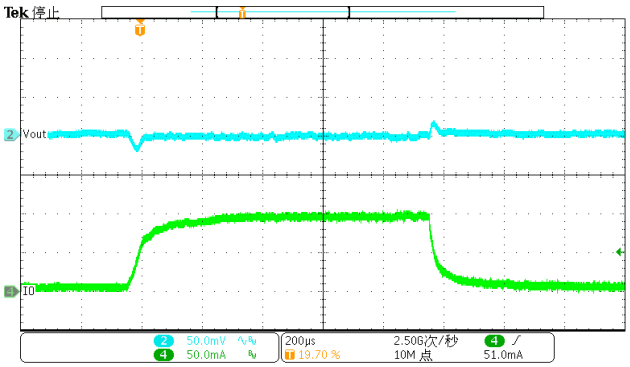

Tek 停止
Vout
2.00 V
50.0mA

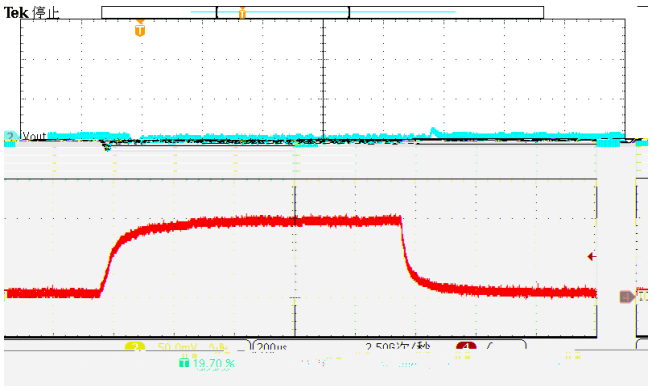

Tek 停止
Vout
IO
100mA
19.70 %

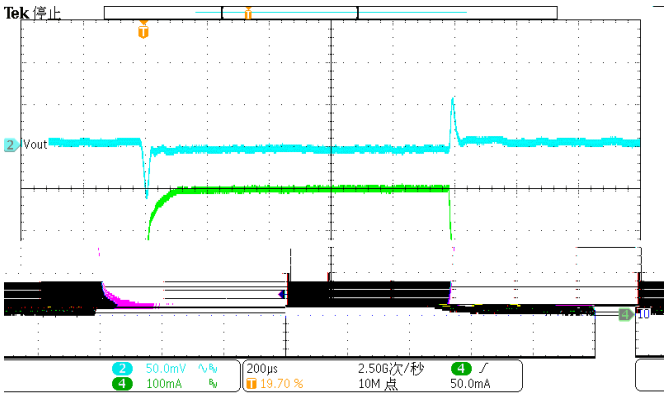

Tek 停止
Vout
50.0mV
100mA
19.70 %

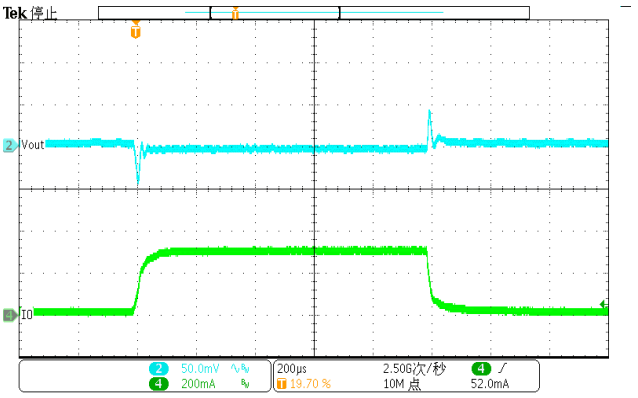

Tek 停止
IO
200µs
19.70 %
2.50G次/秒
10M 点
148mA

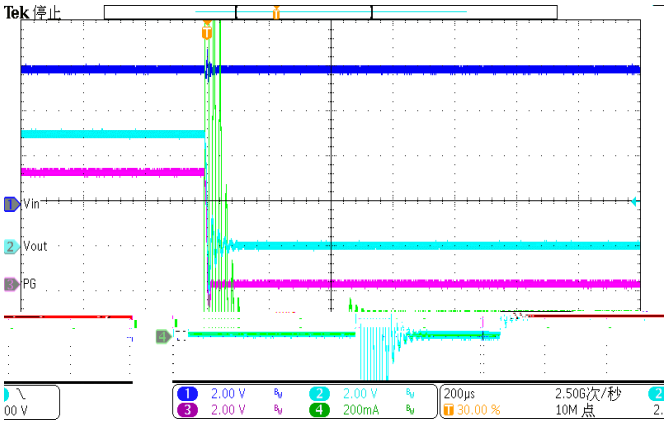

Tek 停止
Vout
IO
50.0mV
200mA
200µs
19.70 %
2.50G次/秒
10M 点
52.0mA

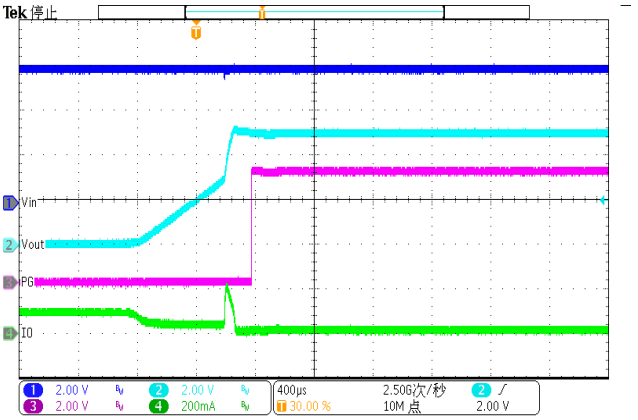

Tek 停止
Vout
IO
50.0mV
50.0mA
200µs
19.70 %
2.50G次/秒
10M 点
51.0mA

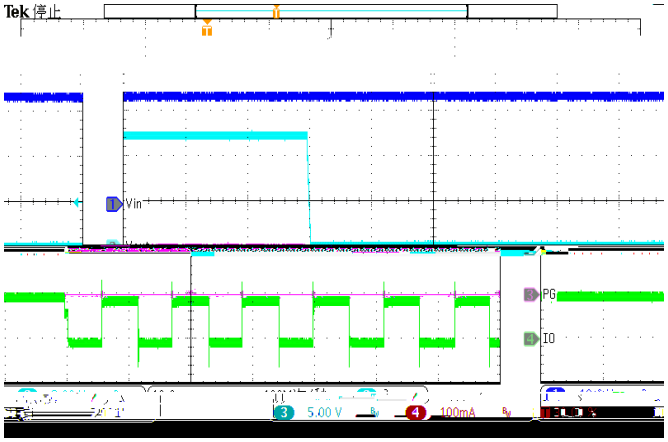

Tek 停止
Vout
19.70 %

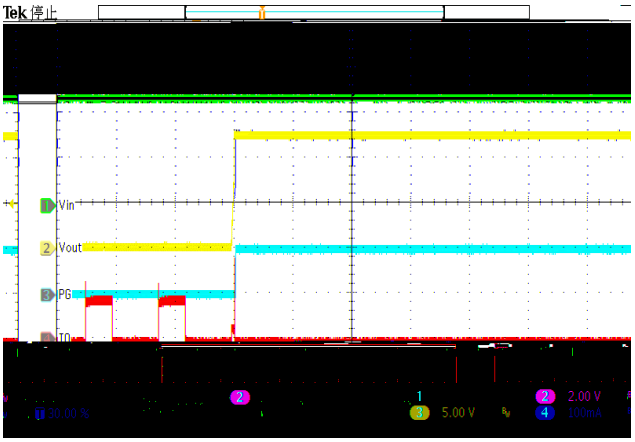

Tek 停止
Vout
50.0mV
100mA
200µs
19.70 %
2.50G次/秒
10M 点
50.0mA


Tek 停止
Vout
IO
50.0mV
200mA
200µs
19.70 %
2.50G次/秒
10M 点
52.0mA


Tek 停止
Vin
Vout
PG
2.00 V
200mA
200µs
30.00 %
2.50G次/秒
10M 点


Tek 停止
Vin
Vout
PG
IO
2.00 V
200mA
400µs
30.00 %
2.50G次/秒
10M 点
2.00 V

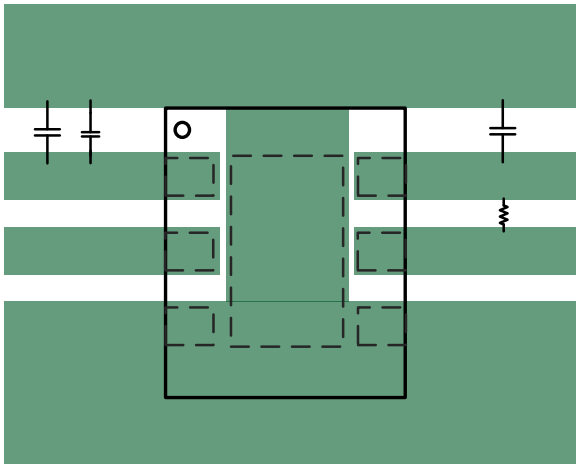

Tek 停止
Vin
PG
IO
5.00 V
100mA

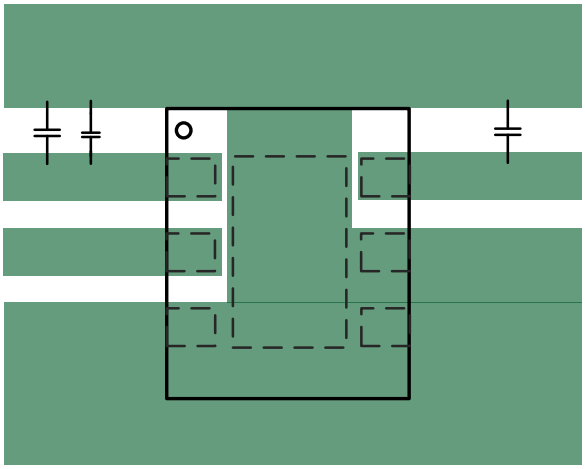

Tek 停止
Vin
Vout
PG
IO
5.00 V
2.00 V
100mA

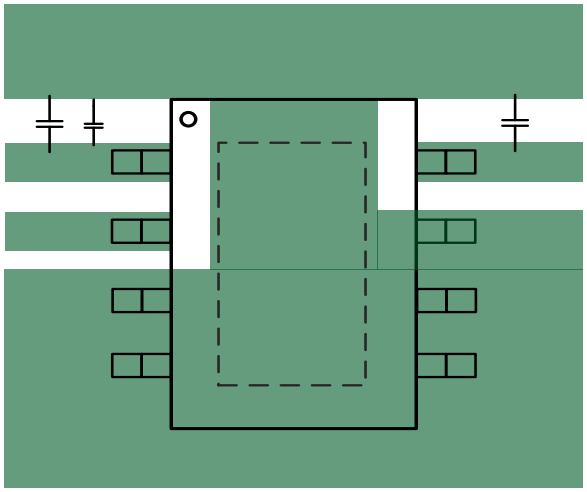
1.
2.

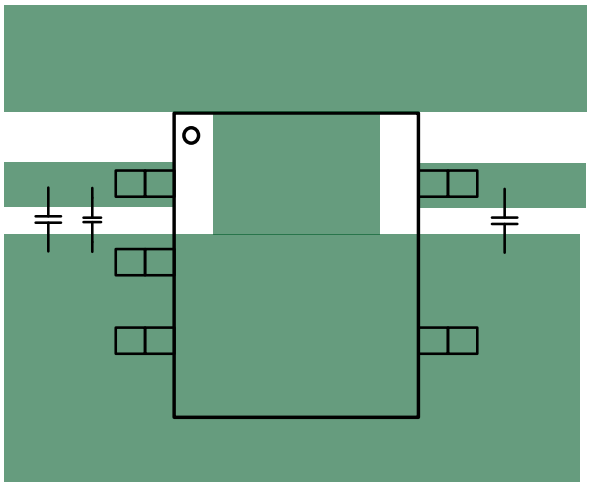
3.
4.

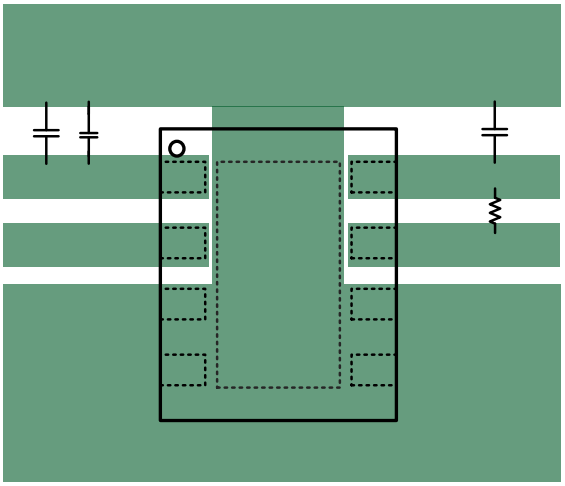
5.

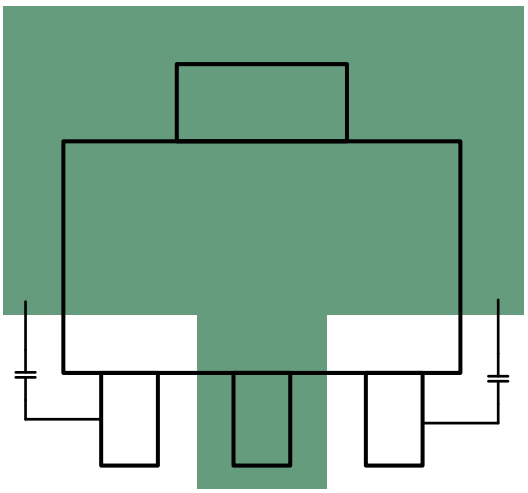


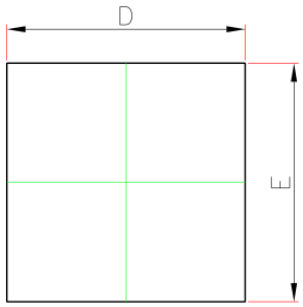




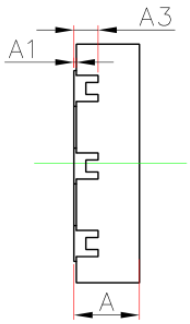




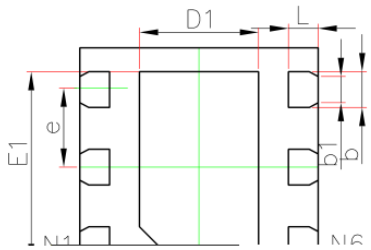




TOP VIEW

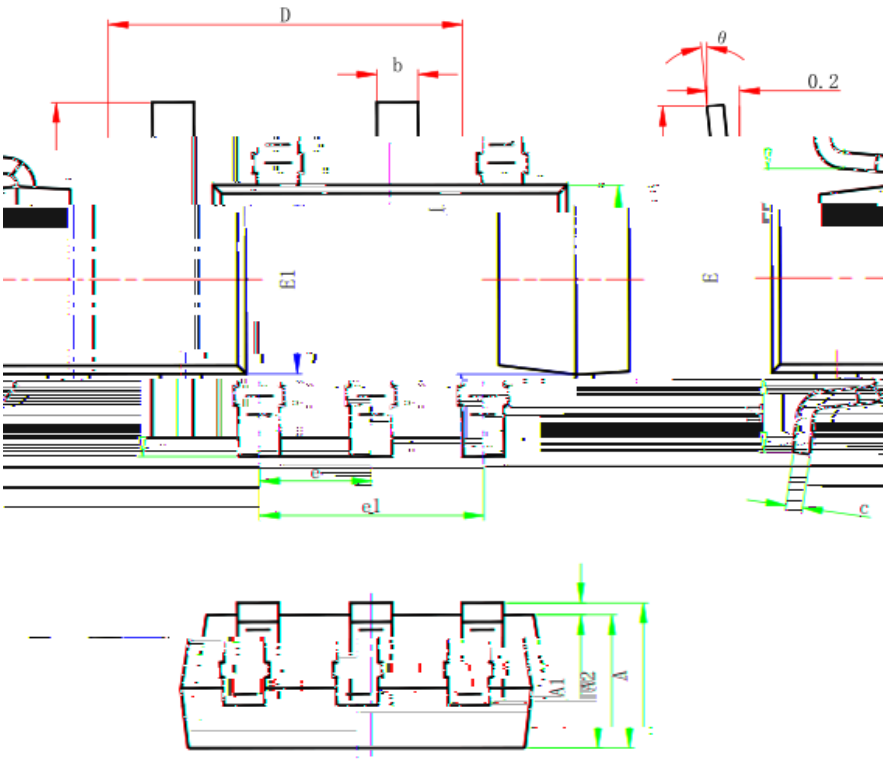


SIDE VIEW

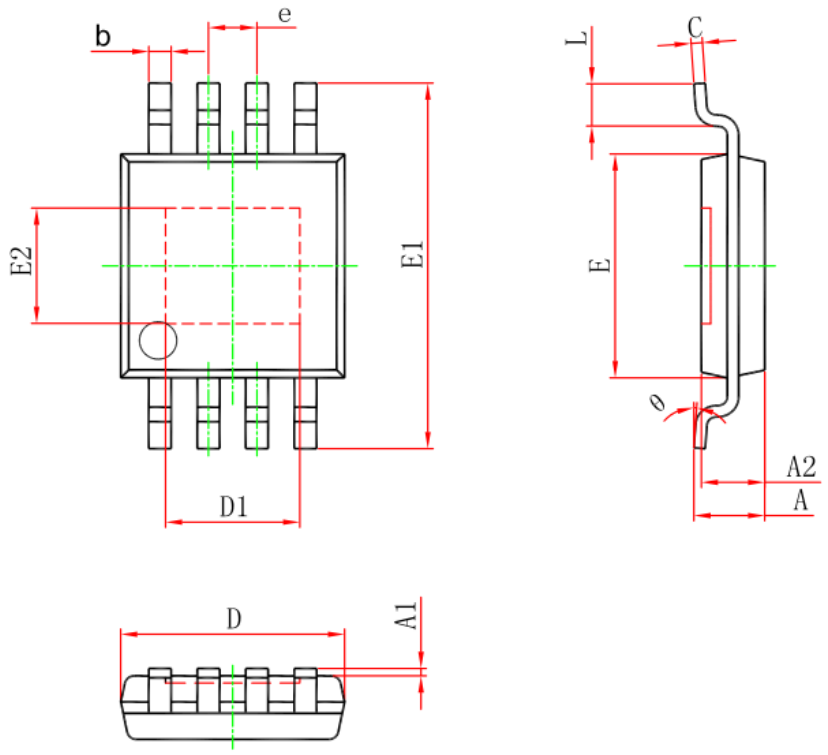


BOTTOM VIEW

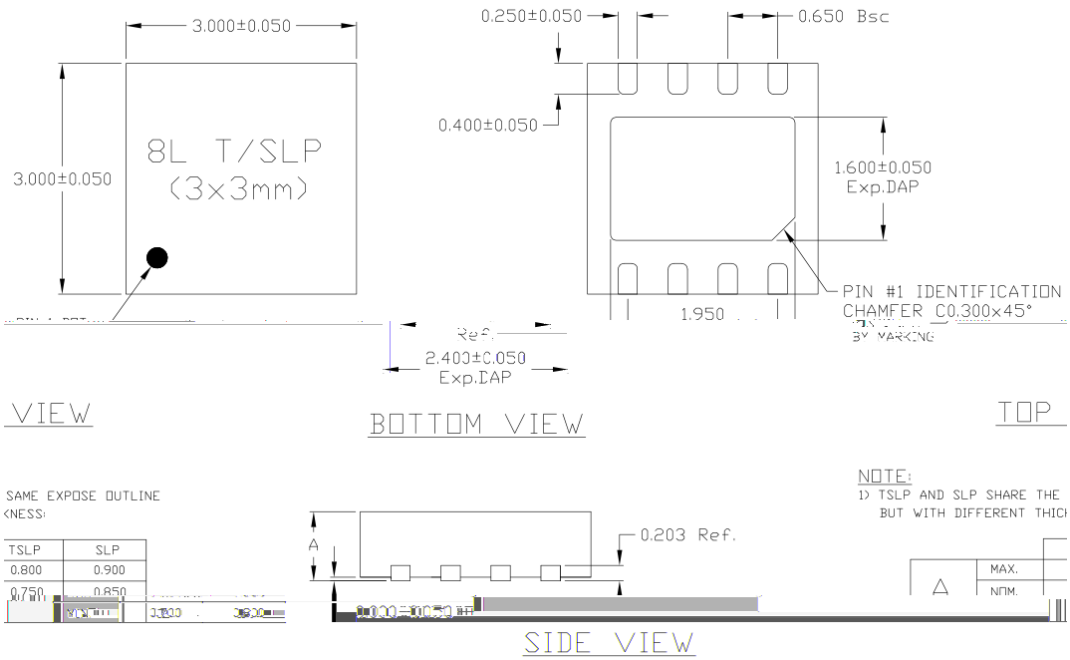
1.
2.
3.
4.
5.
6.



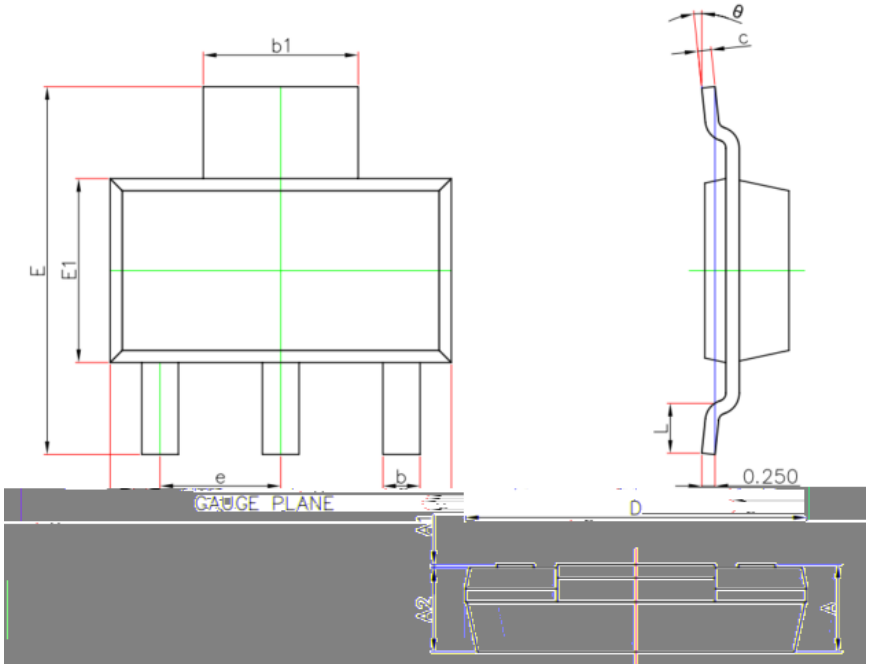
1.
2.
3.
4.
5.
6.



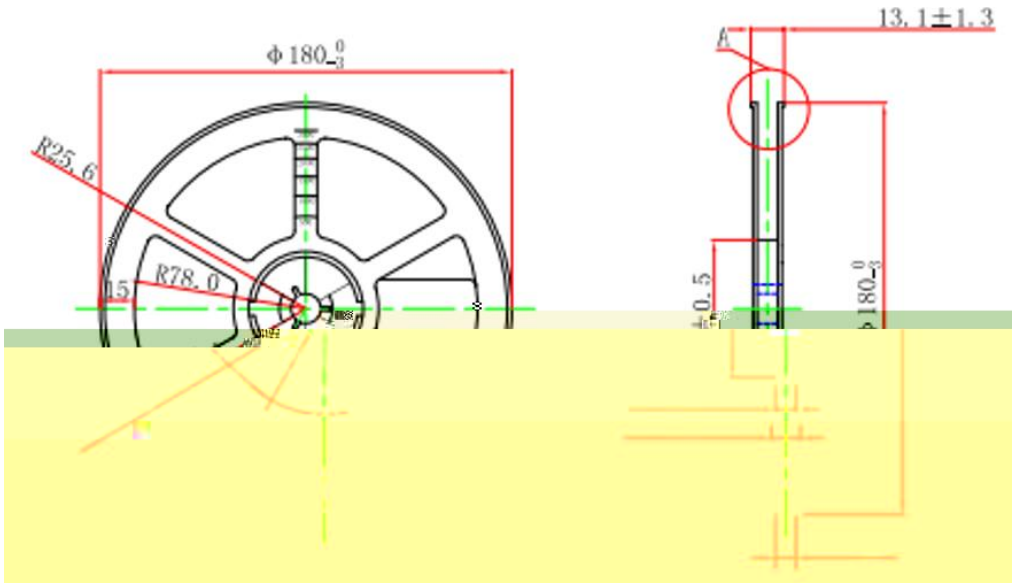
1.
2.
3.
4.
5.
6.

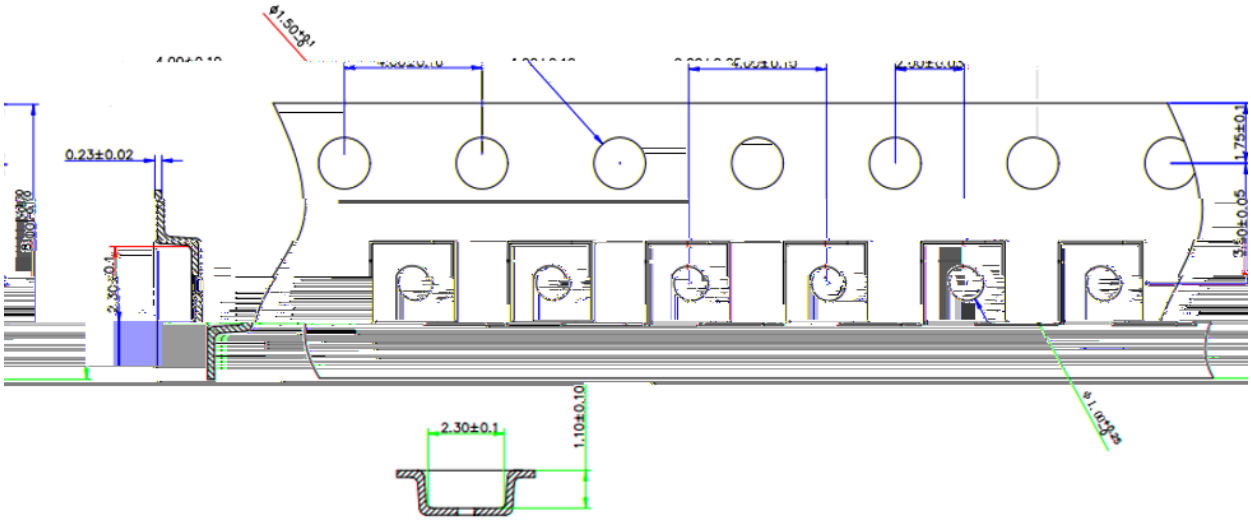

3.000±0.050
3.000±0.050
8L T/SLP
(3x3mm)
0.250±0.050
0.650 Bsc
0.400±0.050
1.600±0.050
Exp.DAP
PIN #1 IDENTIFICATION
CHAMFER C0.300x45°
1.950
2.400±0.050
Exp.DAP
VIEW
BOTTOM VIEW
TOP
SAME EXPOSE OUTLINE
TSLP
SLP
0.800
0.900
0.750
0.850
A
0.203 Ref.
NOTE:
MAX.
NOM.
SIDE VIEW

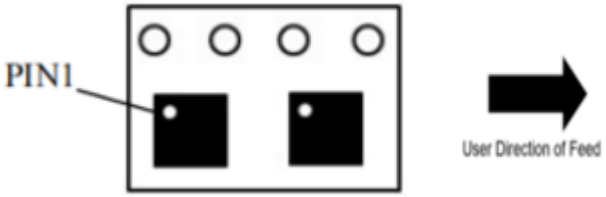
1.
2.
3.
4.
5.
6.

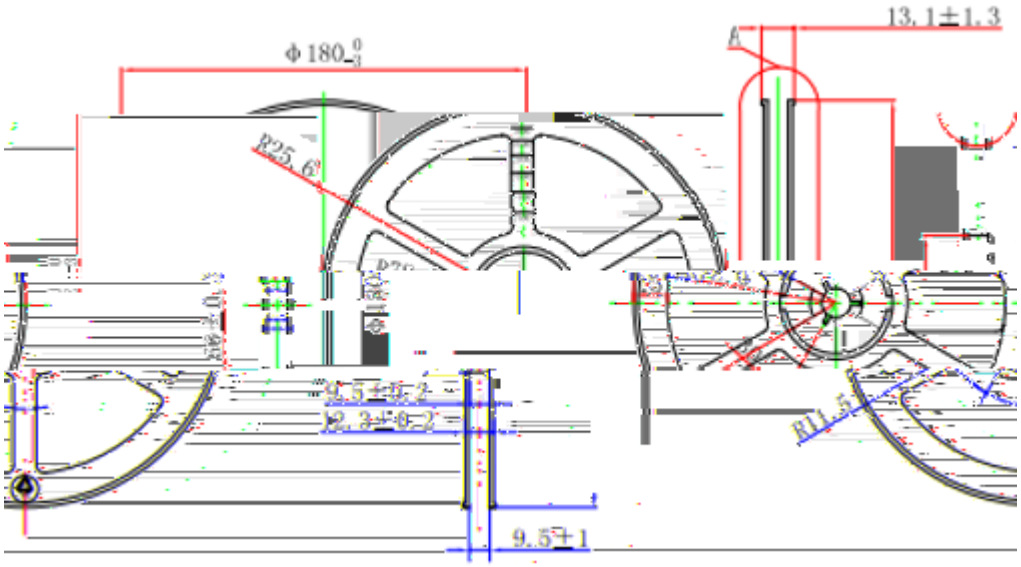


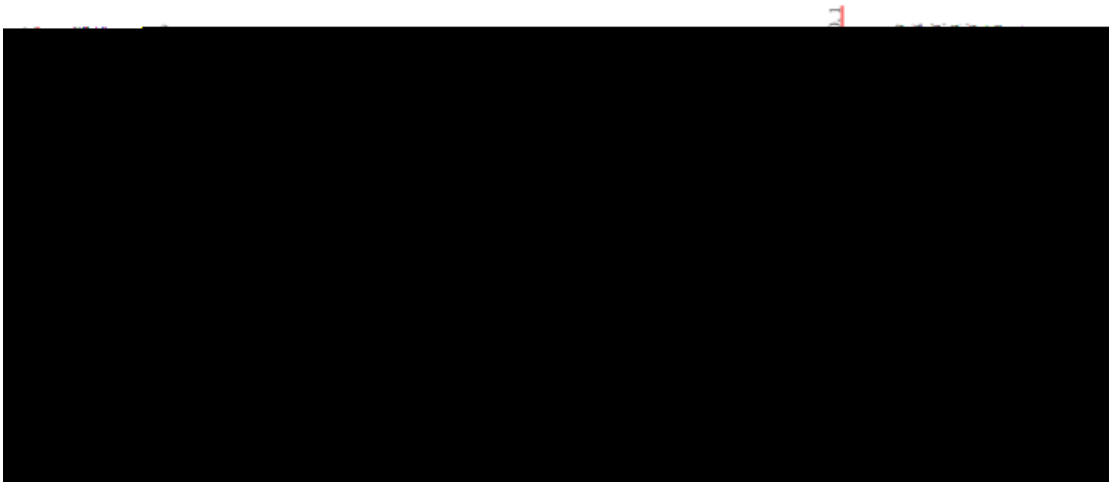
7.
8.
9.
10.
11.
12.

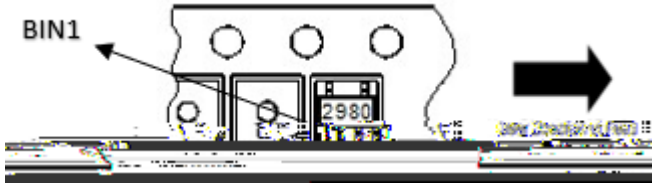

13.1±1.3
A
Φ180
R25.6
R78.0
15
±0.5
Φ180

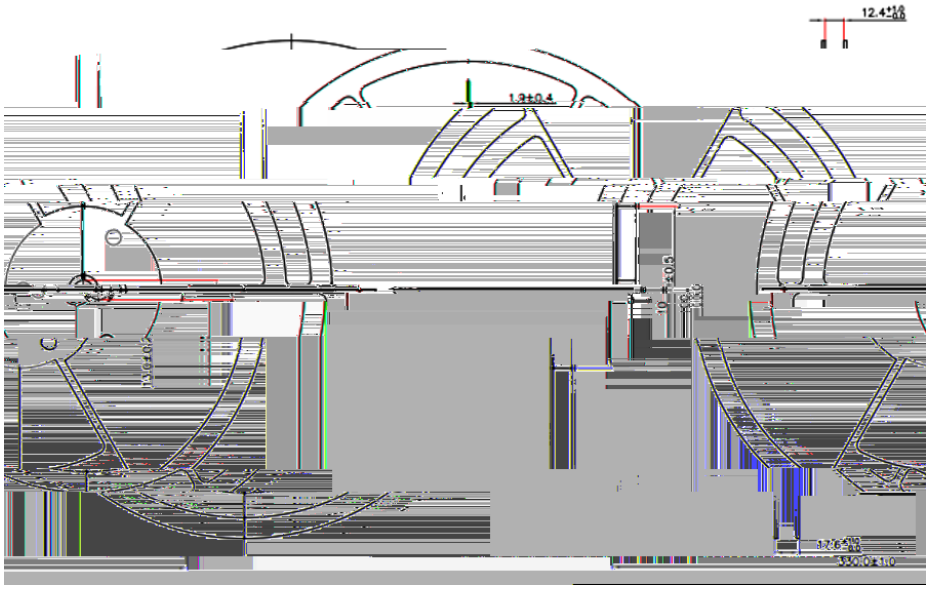

0.23±0.02
2.30±0.1
2.30±0.1
1.10±0.10

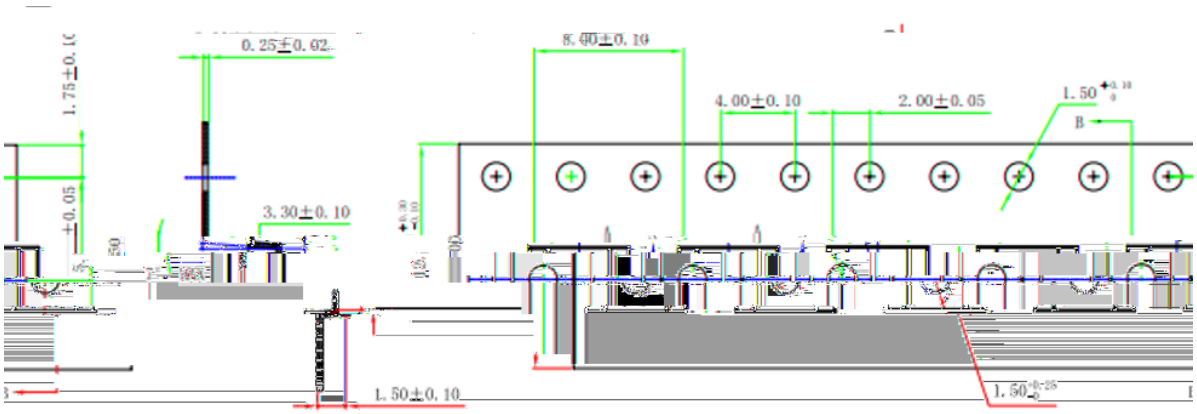

PIN1
User Direction of Feed


13.1±1.3
R25.6
9.5±1

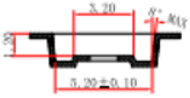


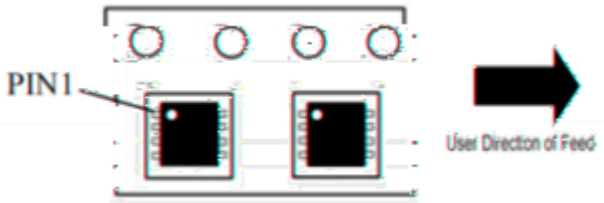

BIN1
2980




0.25±0.02
8.40±0.10
4.00±0.10
2.00±0.05
1.50
B
3.30±0.10
1.50±0.10
1.50

B-B


3.20
3.20±0.10


PIN1
User Direction of Feed