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

FEATURES

DESCRIPTION

APPLICATIONS

REVISION HISTORY

DEVICE ORDER INFORMATION

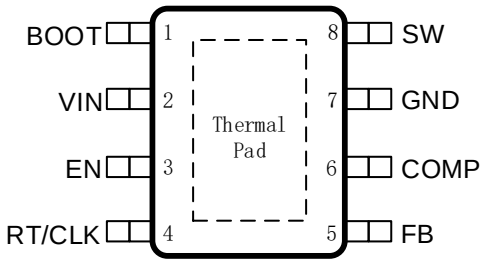
1)

ABSOLUTE MAXIMUM RATINGS

(1)

(2)

PIN CONFIGURATION



PIN FUNCTIONS

		. H GC

RECOMMENDED OPERATING CONDITIONS

ESD RATINGS

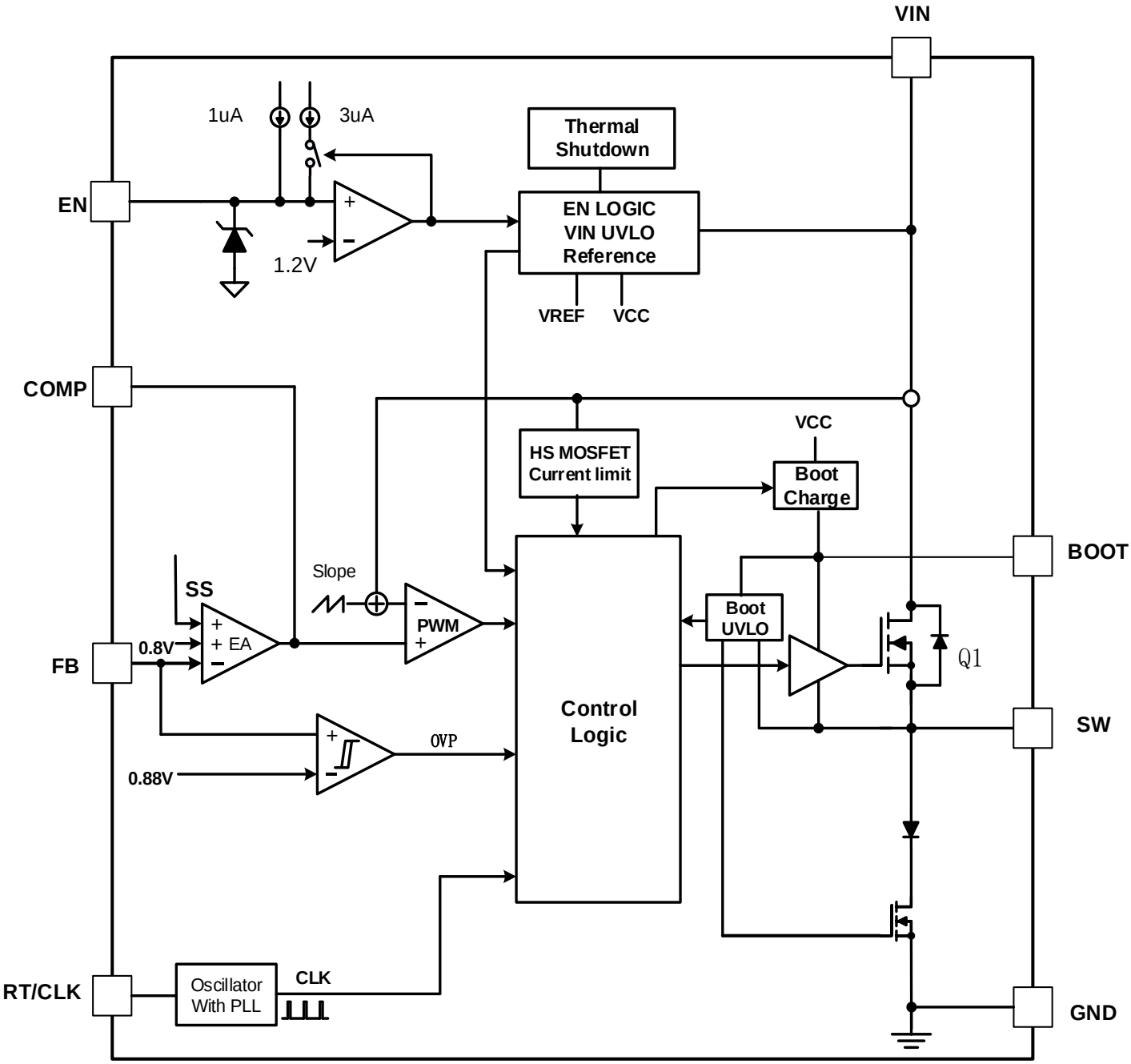
(1)
(2)

THERMAL INFORMATION

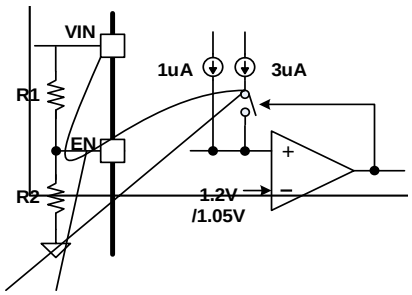
ELECTRICAL CHARACTERISTICS

TYPICAL CHARACTERISTICS

FUNCTIONAL BLOCK DIAGRAM

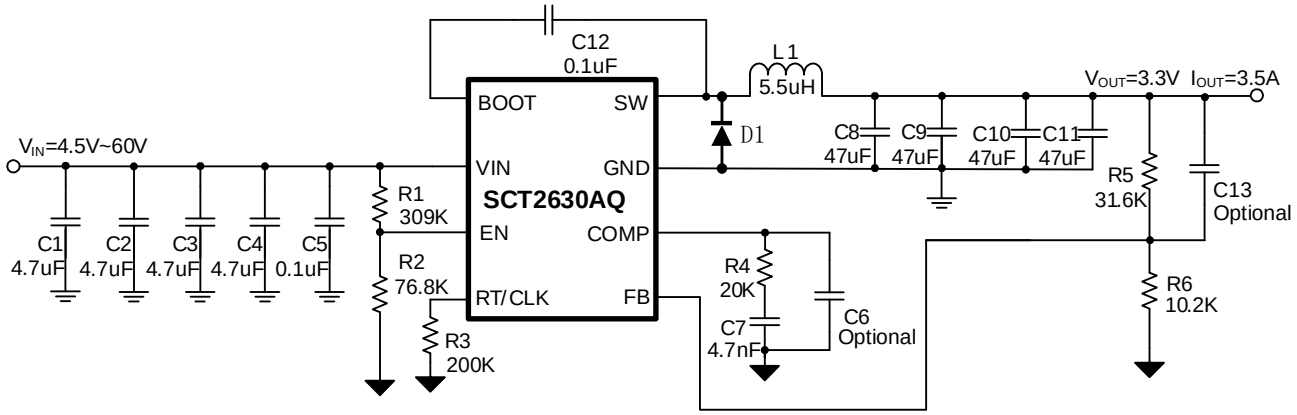


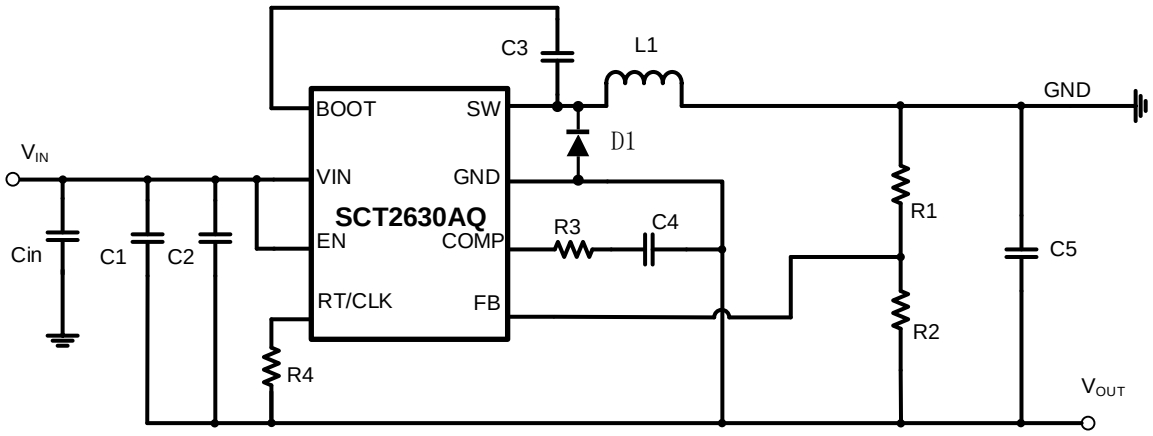
OPERATION

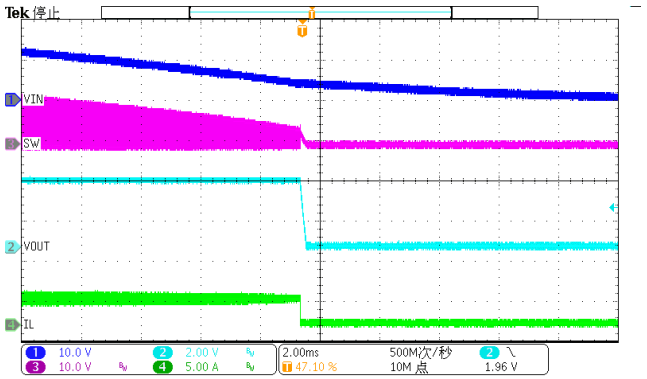


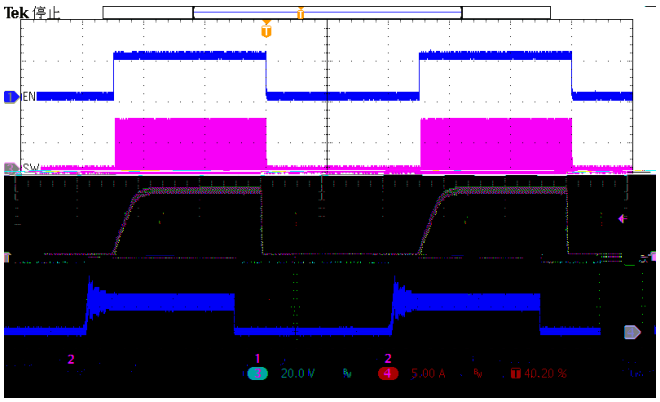
1% tolerance

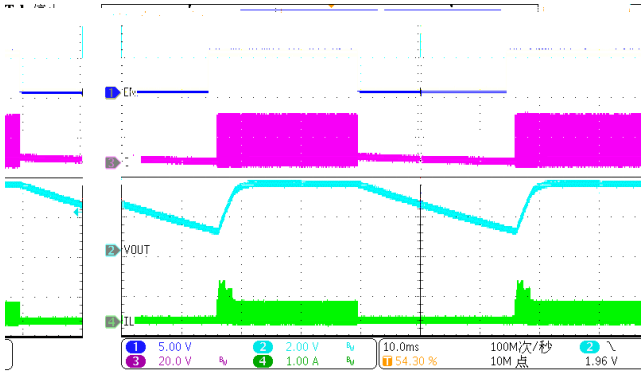
APPLICATION INFORMATION

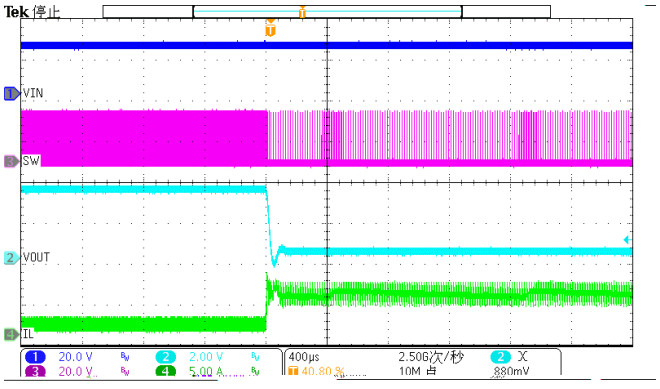


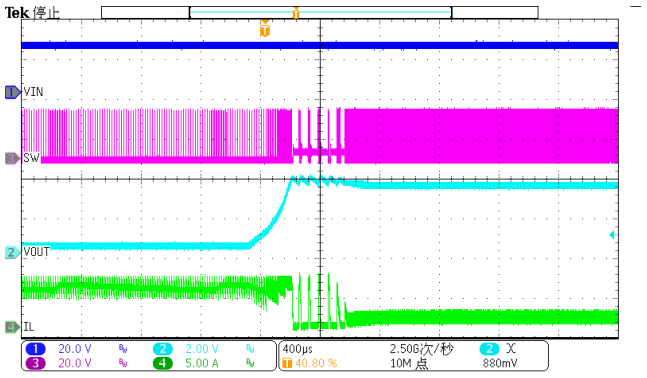

C3
L1
GND
BOOT
SW
D1
VIN
GND
SCT2630AQ
EN
COMP
R3
C4
R1
C5
RT/CLK
FB
R2
R4
Cin
C1
C2
VOUT

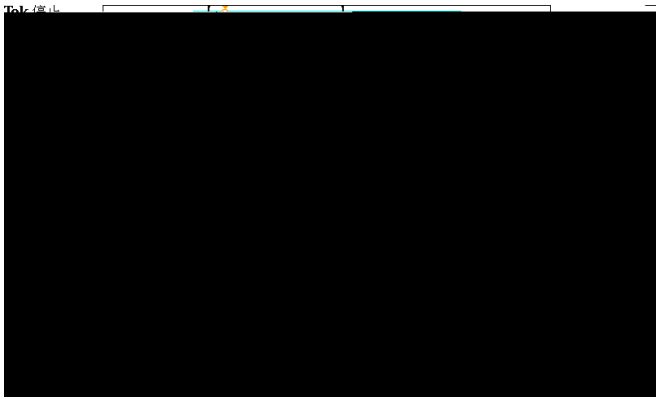

Tek 停止
VIN
SW
VOUT
IL
10.0 V
10.0 V
2.00 V
5.00 A
2.00ms
47.10 %
500M次/秒
10M 点
1.96 V

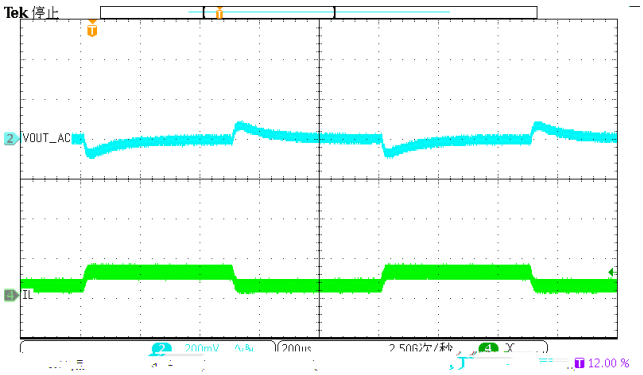

Tek 停止
EN
SW
20.0 V
5.00 A
40.20 %

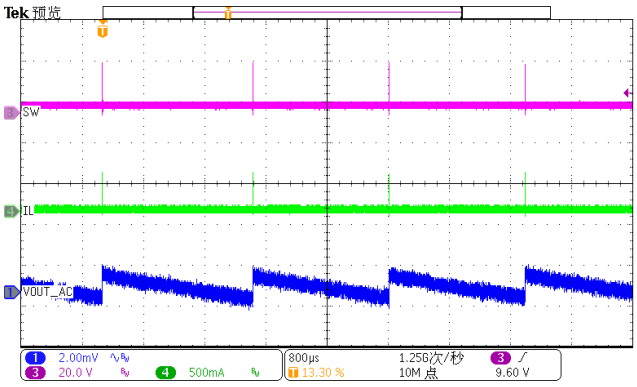

VOUT
IL
5.00 V
20.0 V
2.00 V
1.00 A
10.0ms
54.30 %
100M次/秒
10M 点
1.96 V

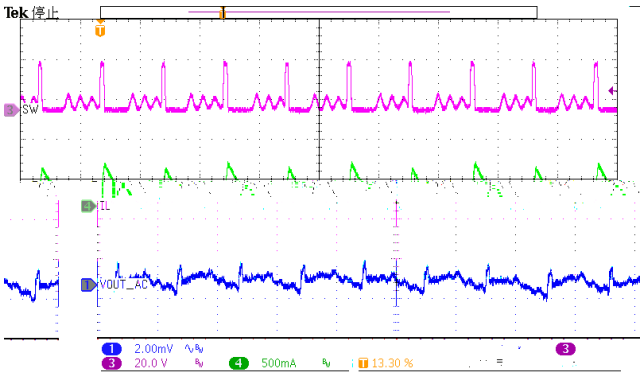

Tek 停止
VIN
SW
VOUT
IL
20.0 V
20.0 V
2.00 V
5.00 A
400µs
40.80 %
2.50G次/秒
10M 点
880mV

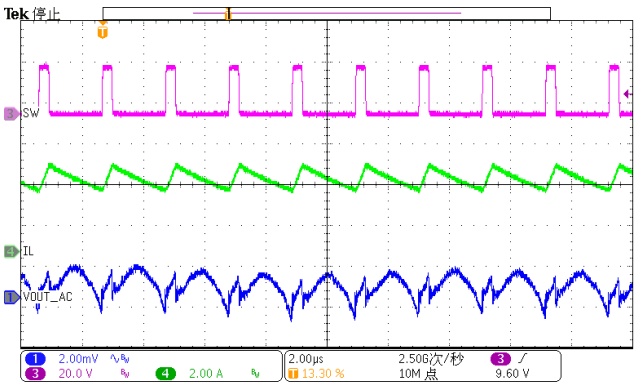

Tek 停止
VIN
SW
VOUT
IL
20.0 V
20.0 V
2.00 V
5.00 A
400µs
40.80 %
2.50G次/秒
10M 点
880mV

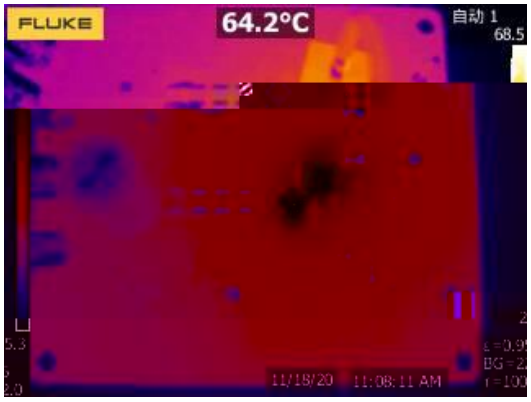



Tek 停止
VOUT_AC
IL


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
13.30 %


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.

2.
3.
4.

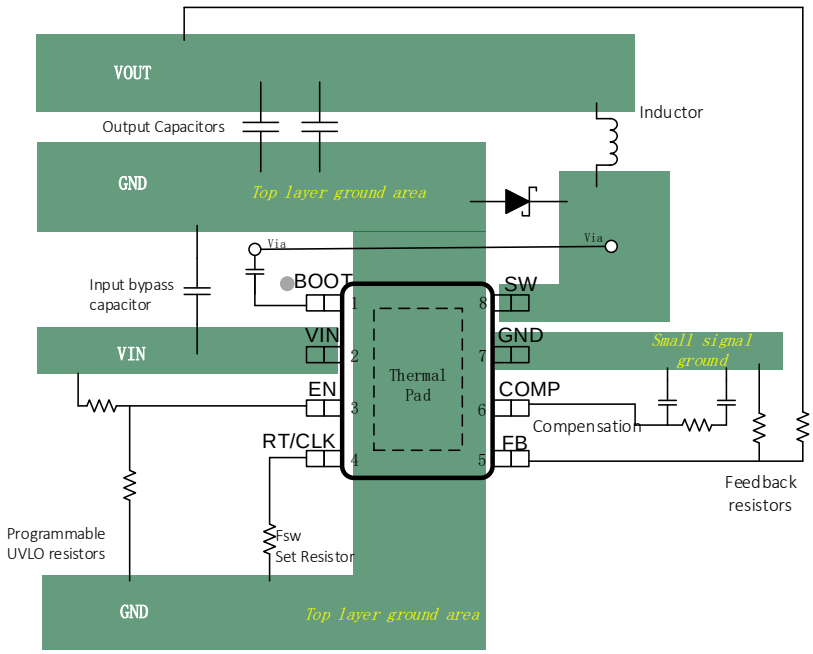
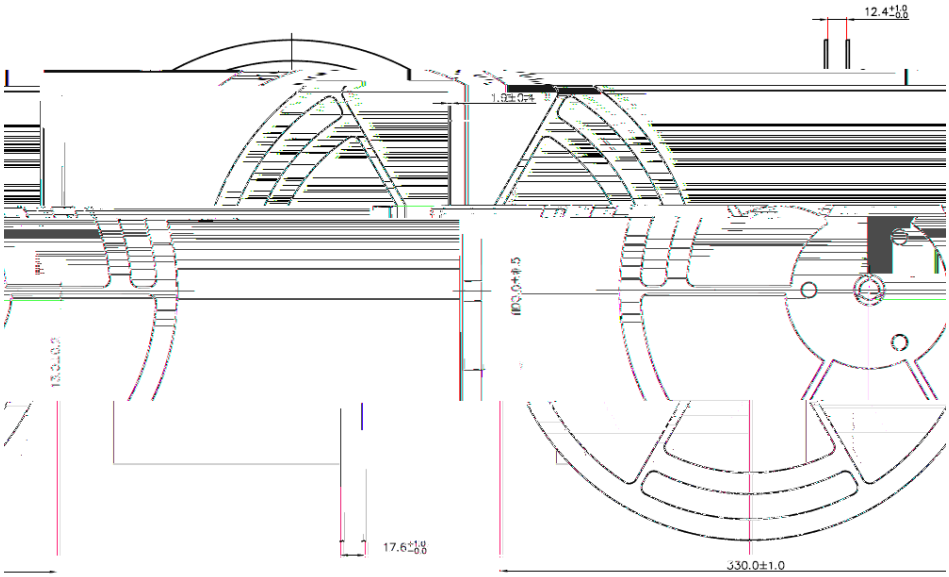
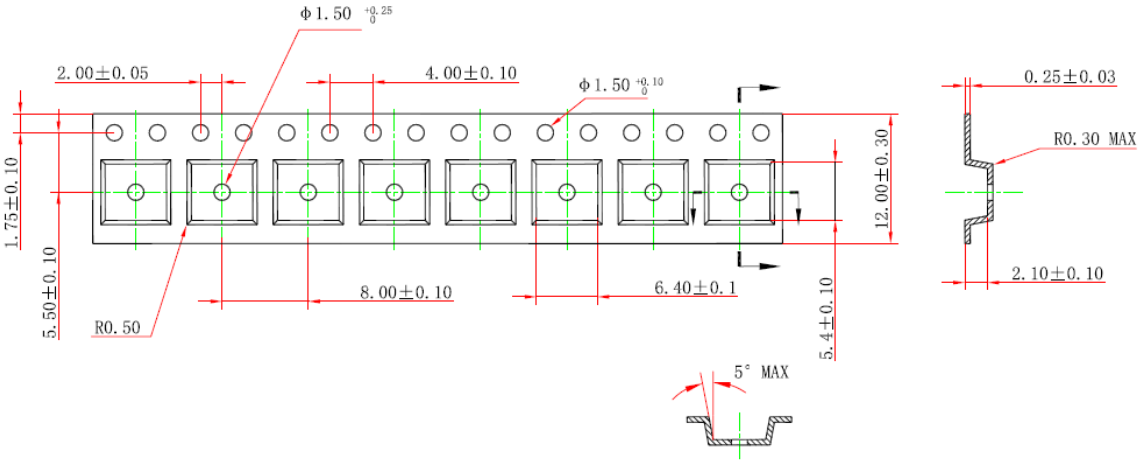
5.

6.

7.

8.

9.
10.



TAPE AND REEL INFORMATION