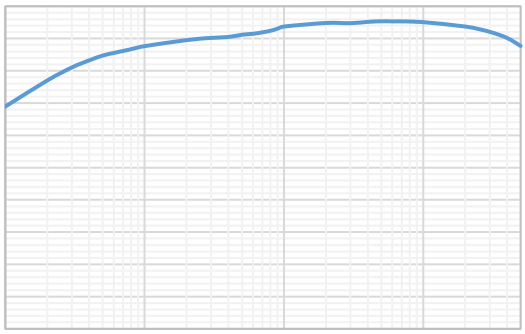


2 Y H U Y L H Z

3 H D&NX U U HIRQGV&R Q W U R O

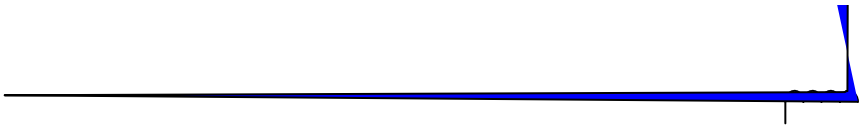
% R R W V W U D S 9 R O W D J H 5 'HJ R XDW RU DQG R Z

$$(\max\ ) = \frac{}{-} \times \left(\frac{\times\ +\ -\ +}{-\ \times\ (\ )+}\right)$$

2 Y H U Y R OWDJH F3W L R Q

7 K H U P D O 6 K X W G R Z Q

7\SLFDO $SSOLFDWLRQ



)LJXUH6&7 &'HVLJQ ([DPSOH 9 2XWSXW ZLWK 3URJUDPPDE

'HVLJQ3DUDPHWHUV

'HVLJQ 3DUDPHWHUV	([DPSOH 9DOXH

2XWSXW 9ROWDJH

9_{287}	5	5

$_5$ = (—— − 1) $_6$

, Q G X F W R U 6 H O H F W L R Q

$$= \frac{(\quad - \quad)}{}$$

$$= \frac{}{(\quad)} \left(1 - \frac{}{(\quad)}\right)$$

$$= \frac{+ \frac{}{2}}{}$$

$$= \sqrt{(\quad)^2 + \frac{1}{12}\ (\quad)^2}$$

' L R G H H O H F W L R Q

$$= \frac{(\quad - \quad) \times \quad \times}{-} + \frac{\times \quad \times (\quad + \quad)^2}{2}$$

, Q S X W & D S D F L W R U 6 H O H F W L R Q

$$I_{CINRMS} = I_{OUT} \quad \sqrt{\frac{V_{OUT}}{V_{IN}} \quad (1 - \frac{V_{OUT}}{V_{IN}})}$$

$$I_{CINRMS} = 0.5 \quad I_{OUT}$$

=

$$_1 = \frac{1}{2^{\quad 7}} = \frac{}{2^{\quad 7}}$$

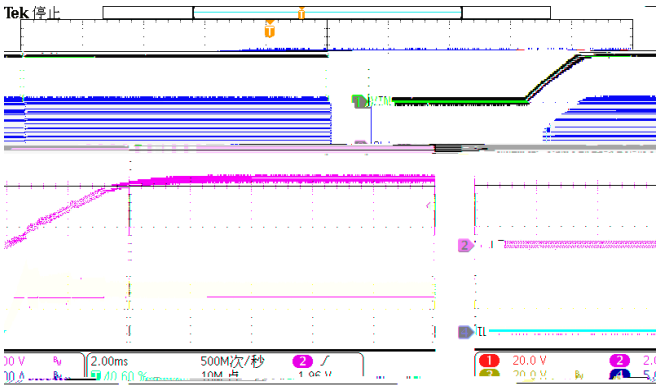
$$_2 = \frac{1}{2} = \frac{}{2}$$

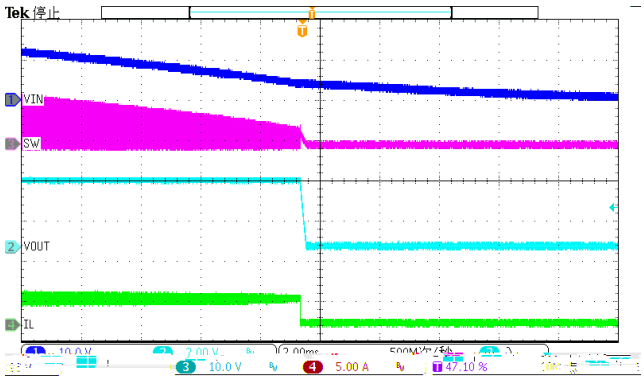
7DEOH&RPSHQVDWLRQ 9DOXHV IRU 7\SLFDO 2XWSXW 9ROWDJH &DSDFL

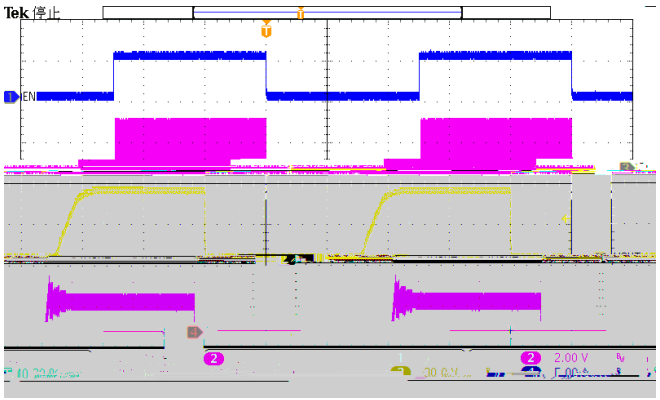
Vout	L1	COUT	R4	C7	C6
2.5V	4.7uH	4*47uF	16.9K	4.7nF	68pF (optional)
3.3V	5.5uH	4*47uF	20K	4.7 nF	47pF (optional)
5V	7.8uH	4*47uF	33.2K	3.3nF	22pF (optional)
12V	10uH	4*47uF	53.6K	1nF	220pF
24V	15uH	4*47uF	105k	1nF	

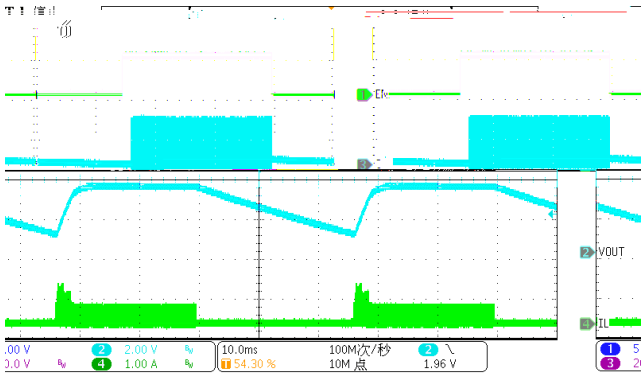
,QYHUWLQJ 3RZHU DSSOLFDWLRQ

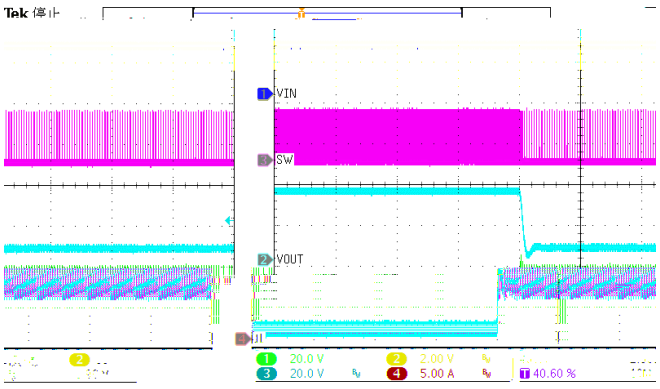
$SSOLFDWLRQ :DYHIRUPV

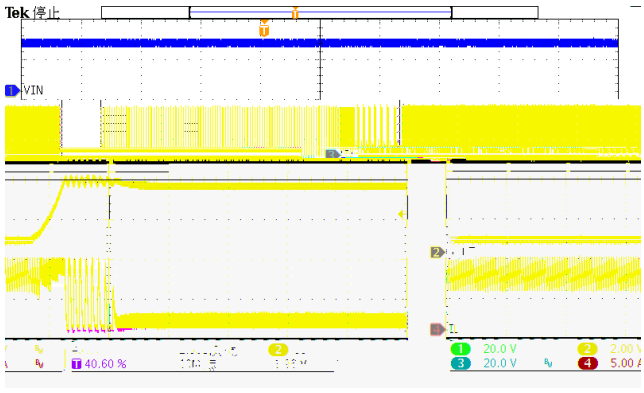




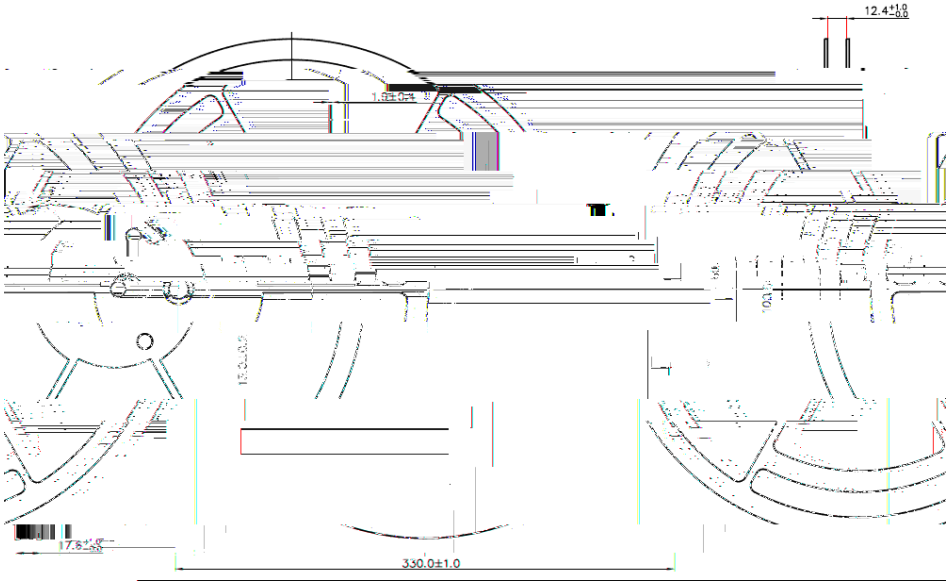


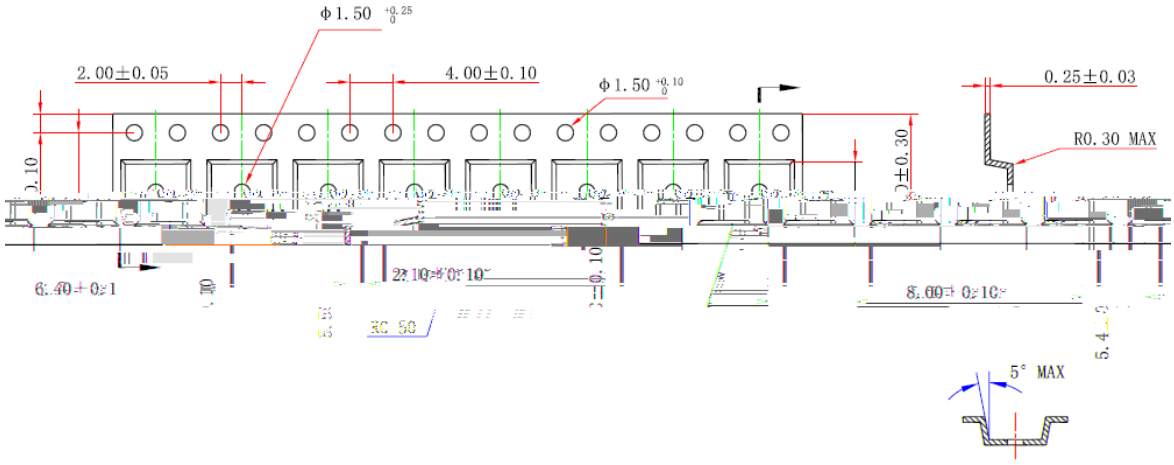






$ S S O L F D W L R Q : Ð R Y Q H W R L L Q P X V H G


12.4+1.0 -0.6
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
5° MAX