

# 附件 5

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201552030124	2015
201549060103	2015
201549060126	2015
201569030220	2015

( / )

"

"

4

2016 1 -2016

12 20

5

2017

9 -2019 6 167

1

1

2

3

4

5

10kV

2

1

2

3 10kV

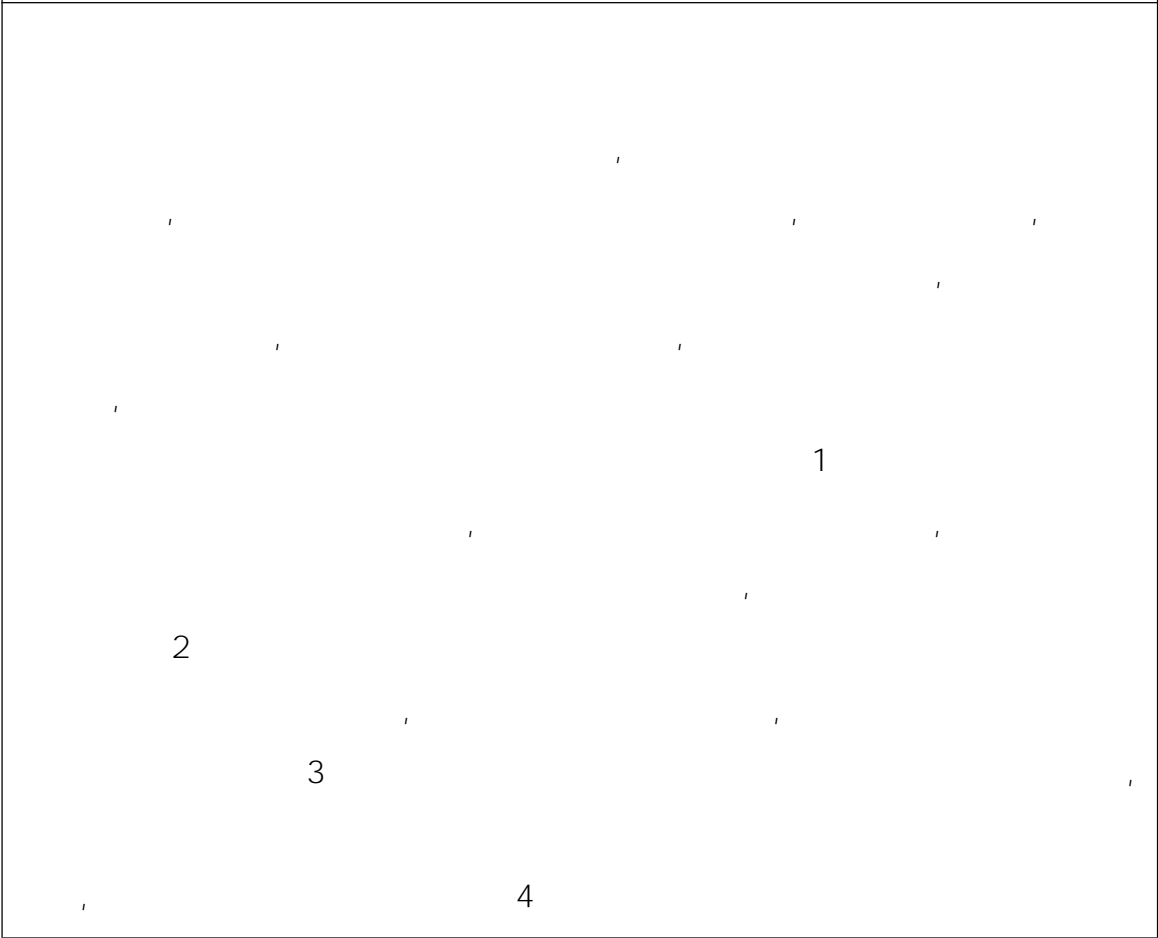
4

5

3.

1

2



35kV 66kV

10kV

"

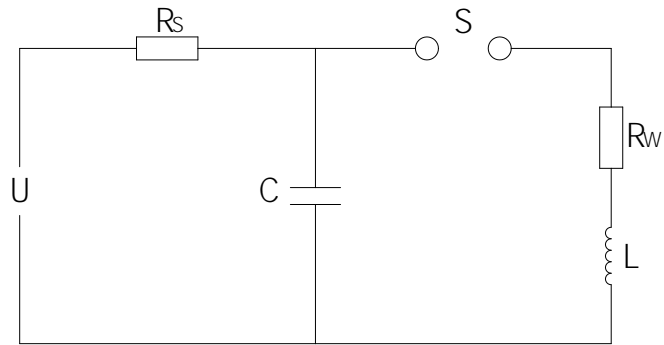
"

1

2

10kV

1



1 U 220kV  
Rs S C  
, L

$$=1/2\pi\sqrt{LC}$$

2

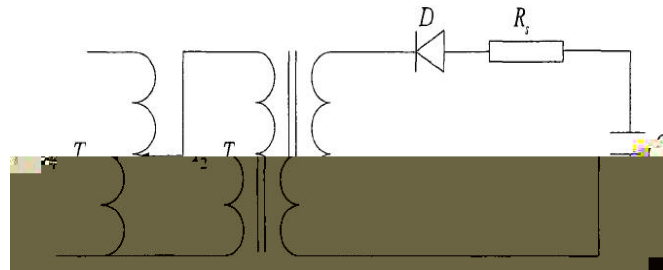
10kV

$R_s$

$T_1$

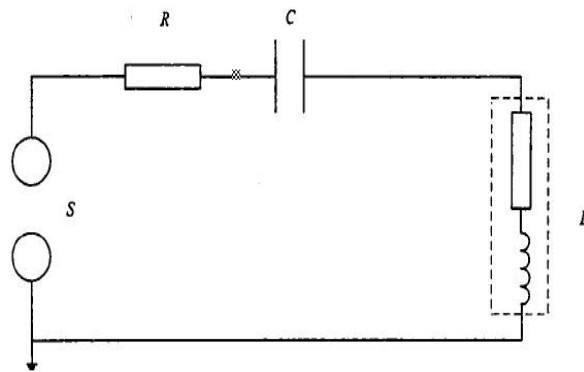
$T_2$

2



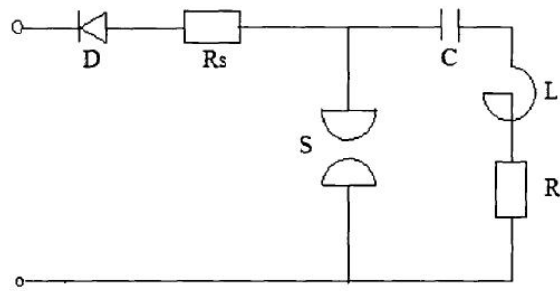
2

3



3

4



4

6

4 D Rs S C L  
R

$$i = C \frac{dU_c}{dt} = -\frac{U_c}{\omega L} \sin(\omega t)$$

$U_c$  :  $U_{c0}$   $U_c$

$$U_L = L \frac{di}{dt} = \frac{\omega_0 L}{\omega} \sin(\omega t - \theta)$$

$$\alpha = \frac{RL}{2\pi}, \omega_0 = \frac{1}{\sqrt{LC}}, \omega = \sqrt{\omega_0^2 - \alpha^2}$$

C

$$C = \frac{1}{(2\pi)^2 L}$$

100kHz, 6~35kV

L 0.1~20mH, C=3nF R 0.2~100

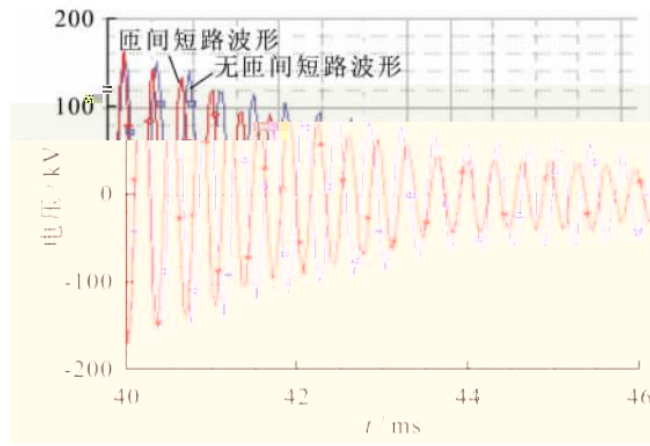
$$\approx \frac{\frac{1}{\omega}}{\sqrt{R_0^2 + (\frac{1}{\omega C})^2}} \sin \omega t$$

99%, 5ms

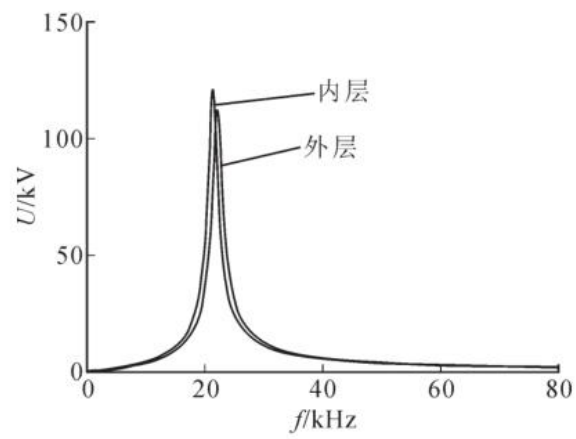
$$\frac{\frac{1}{\omega C}}{\sqrt{R^2 + (\frac{1}{\omega C})^2}} \geq 0.99$$

10kV

3



5

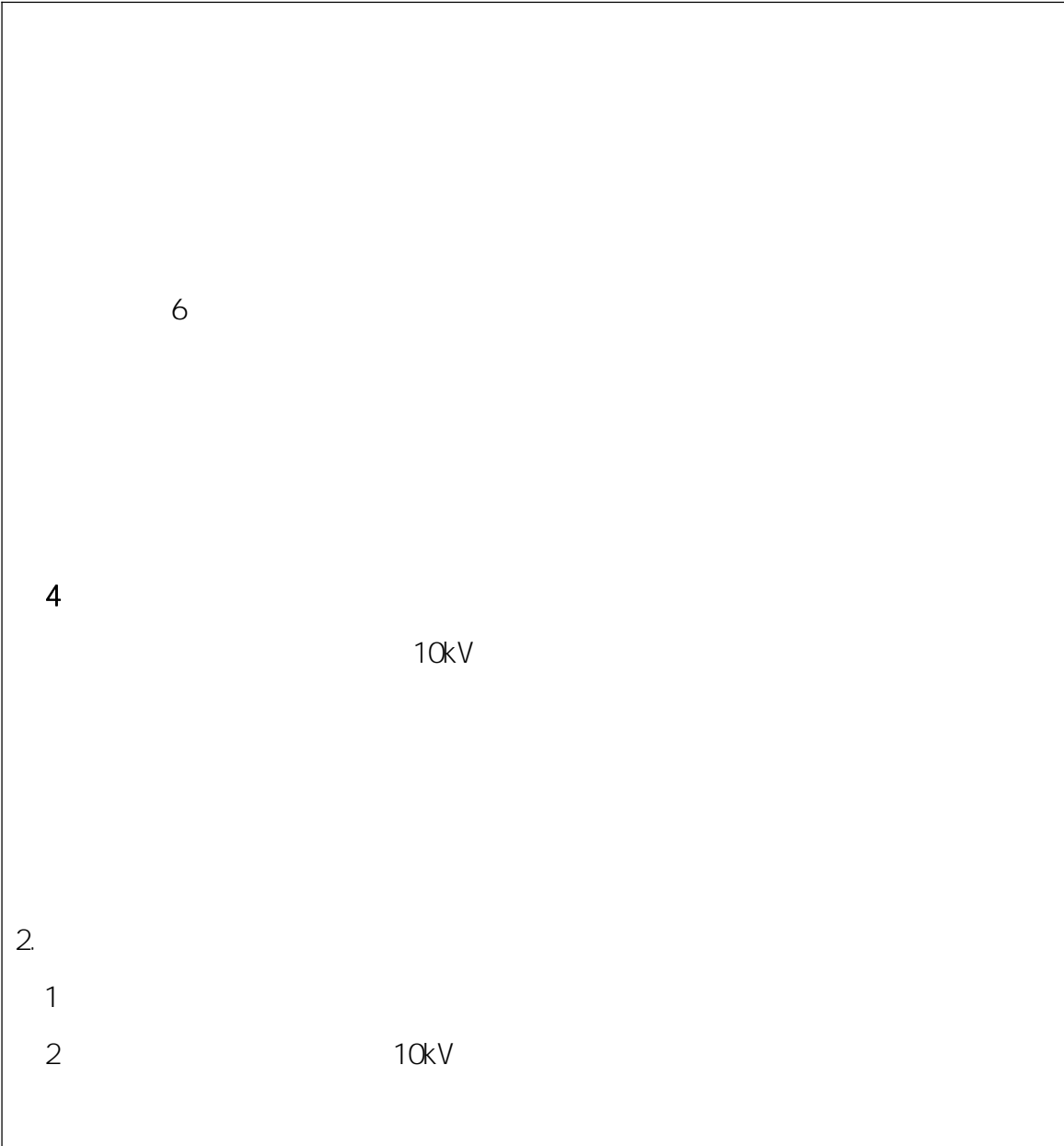


6

5

8





1	2018	4	-2018	5	
2	2018	6	-2018	7	
3	2018	8	-2018	11	
4	2018	12	-2019	2	10kV
5	2019	3			
2019	4	-2019	6		
2018.4.26					