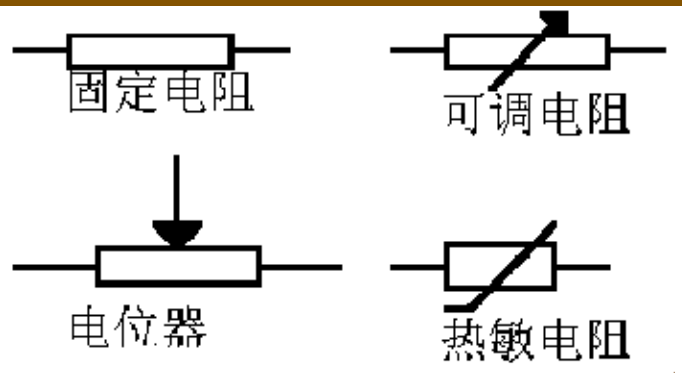
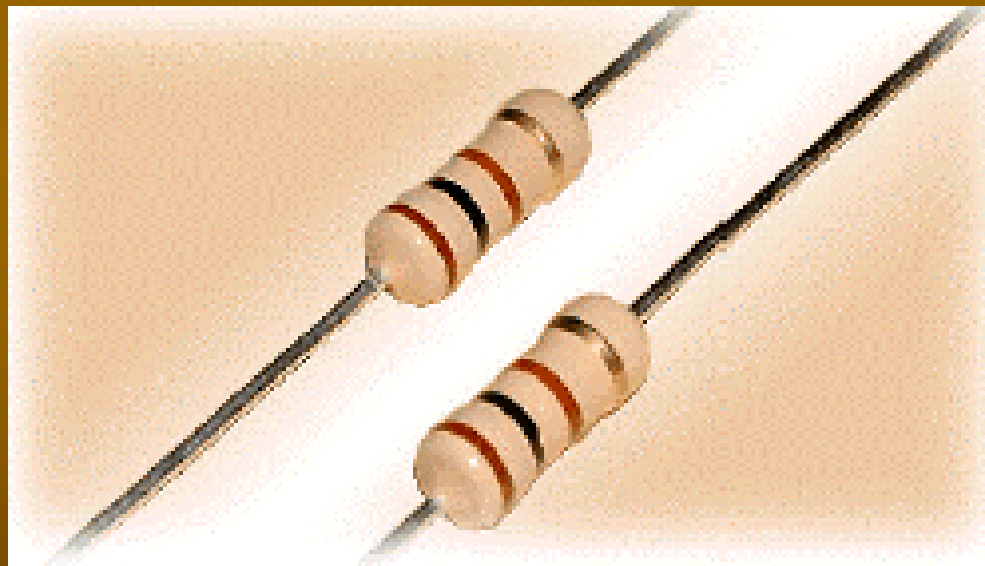
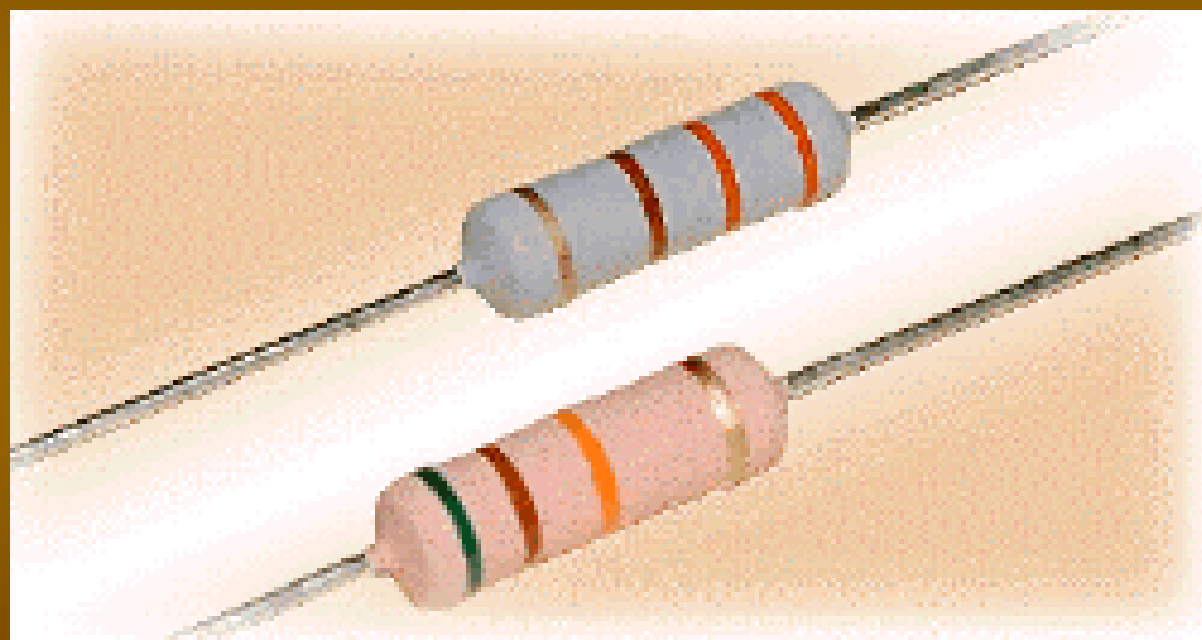
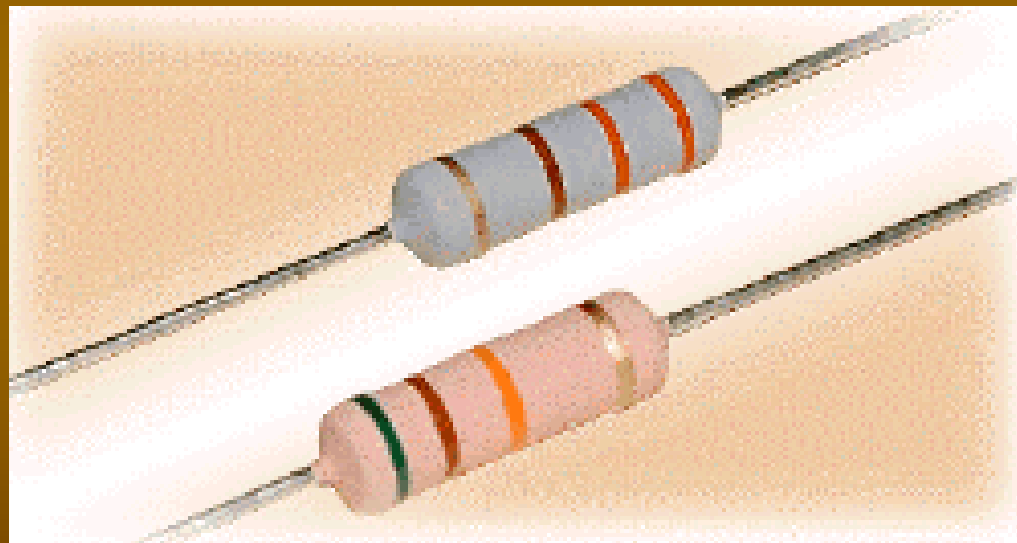


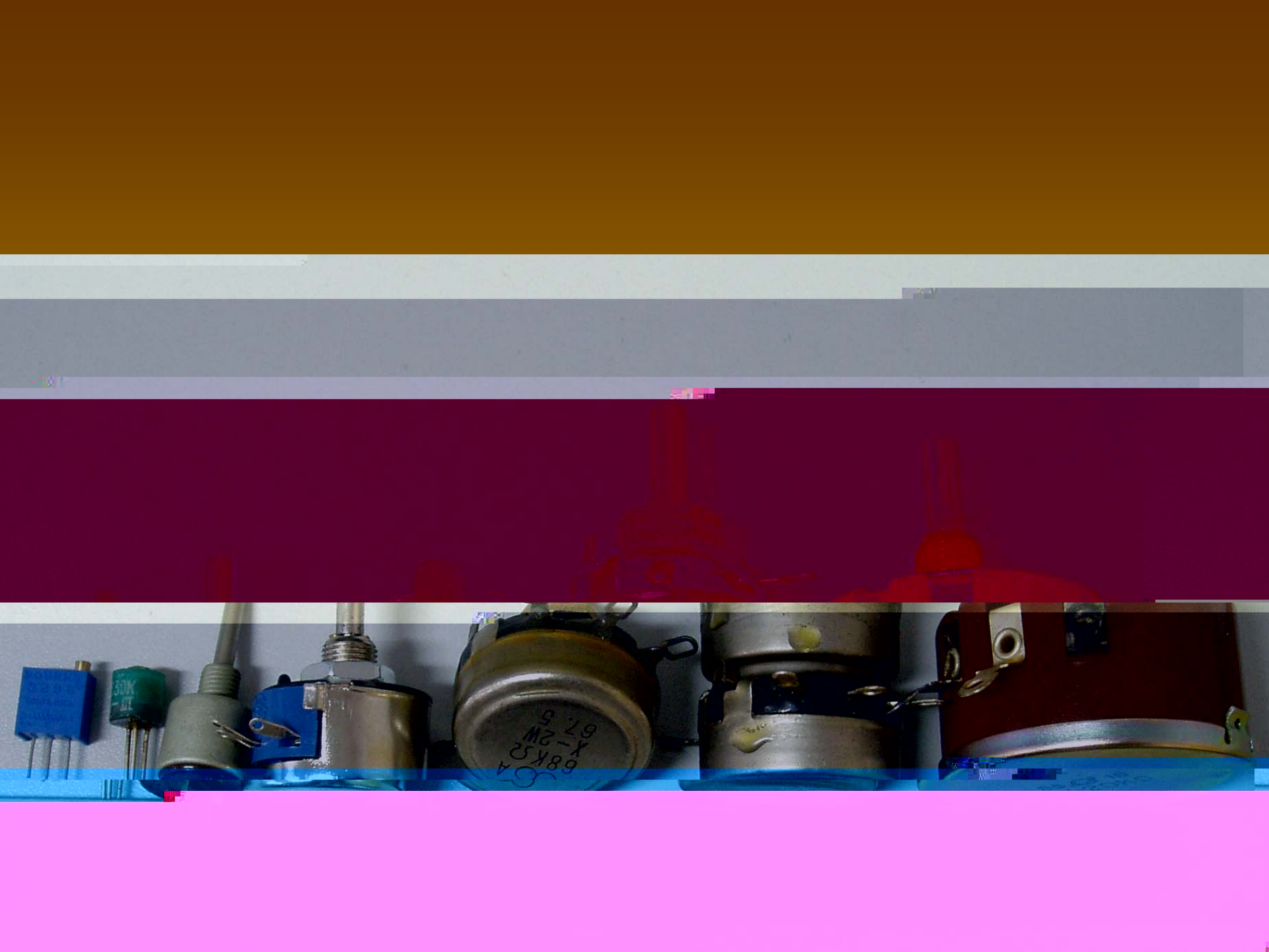


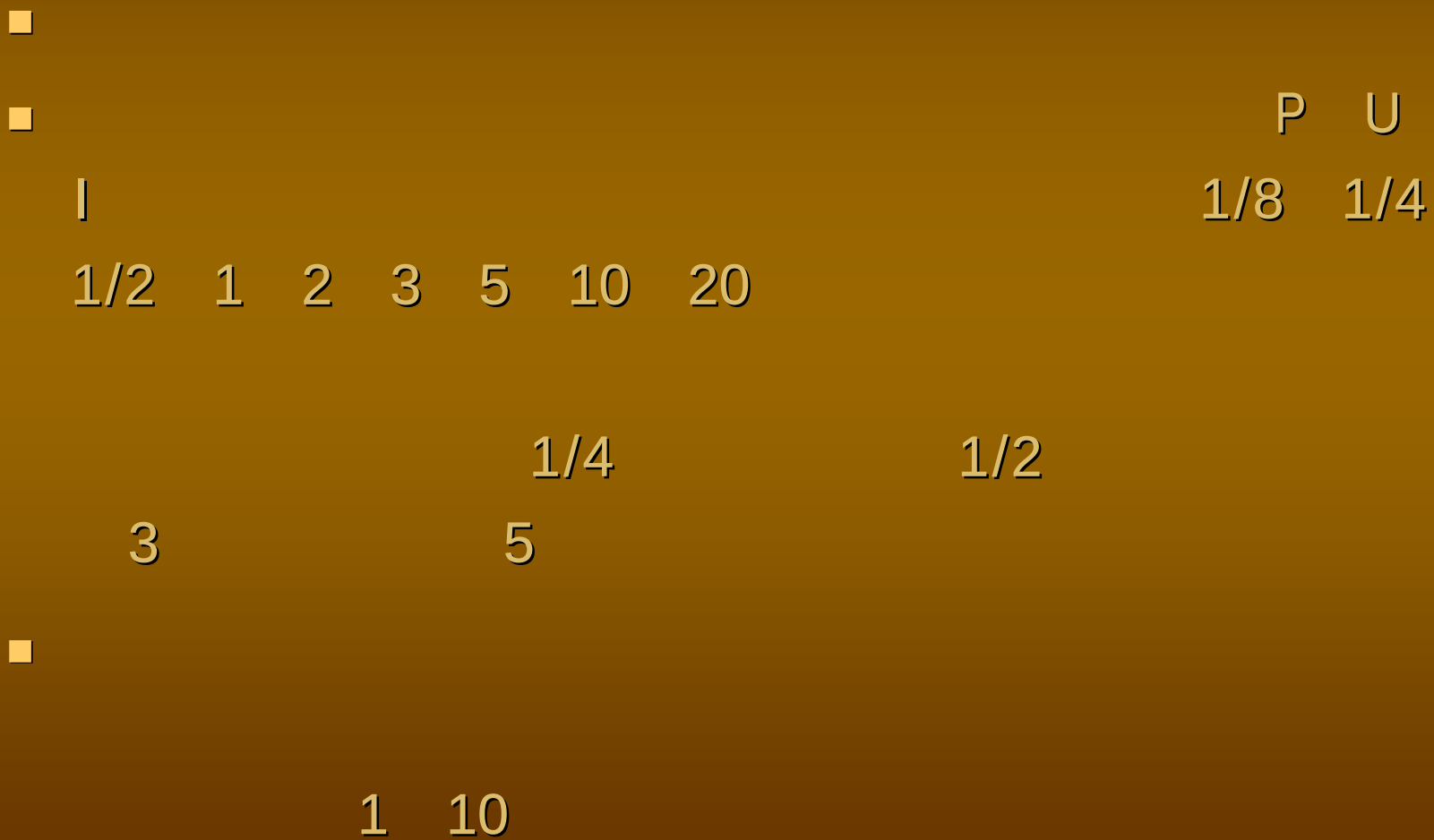












$$\blacksquare \quad \begin{matrix} 5 & 1 & 10 & & 24 \\ E_{24} \end{matrix}$$

$$\blacksquare \quad \begin{matrix} 10 & 1 & 10 & & 12 \\ E_{12} \end{matrix}$$

$$\blacksquare \quad \begin{matrix} 20 & 1 & 10 & & 6 \\ E_6 \end{matrix}$$



4.7K

M

K

R

4K7

1R9

3

4

2

3

102

1000

1001

1000

	1	1	10	
	2	2	100	
	3	3	1000	
	4	4	10000	
	5	5	100000	
	6	6	1000000	
	7	7	10000000	
	8	8	100000000	
	9	9	1000000000	
	0	0	1	
			0.1	± 5%
			0.01	± 10%
				± 20%

5

10^{-1}

允许误差 (棕)

倍乘 (金)

第三位数 (绿)

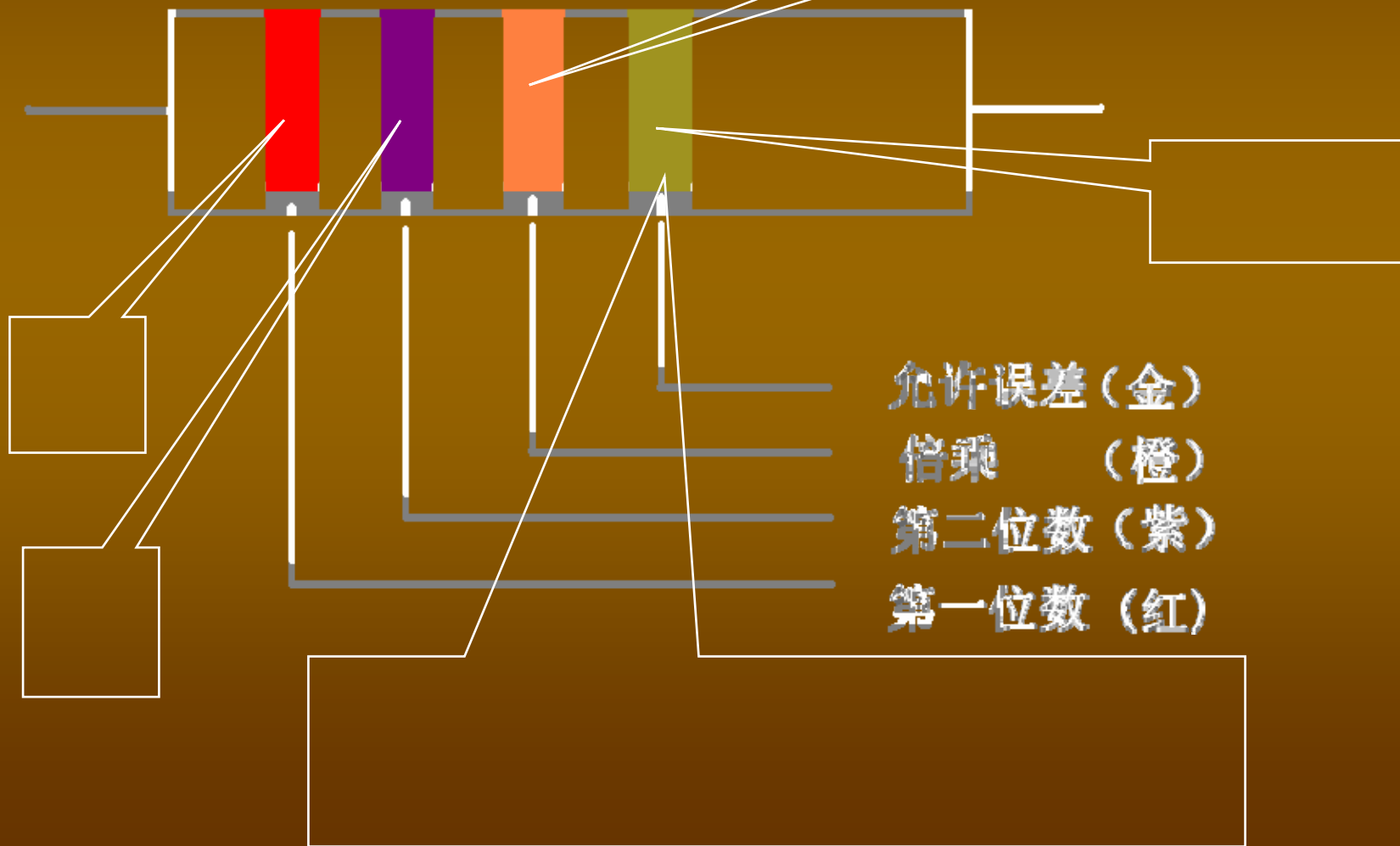
第二位数 (紫)

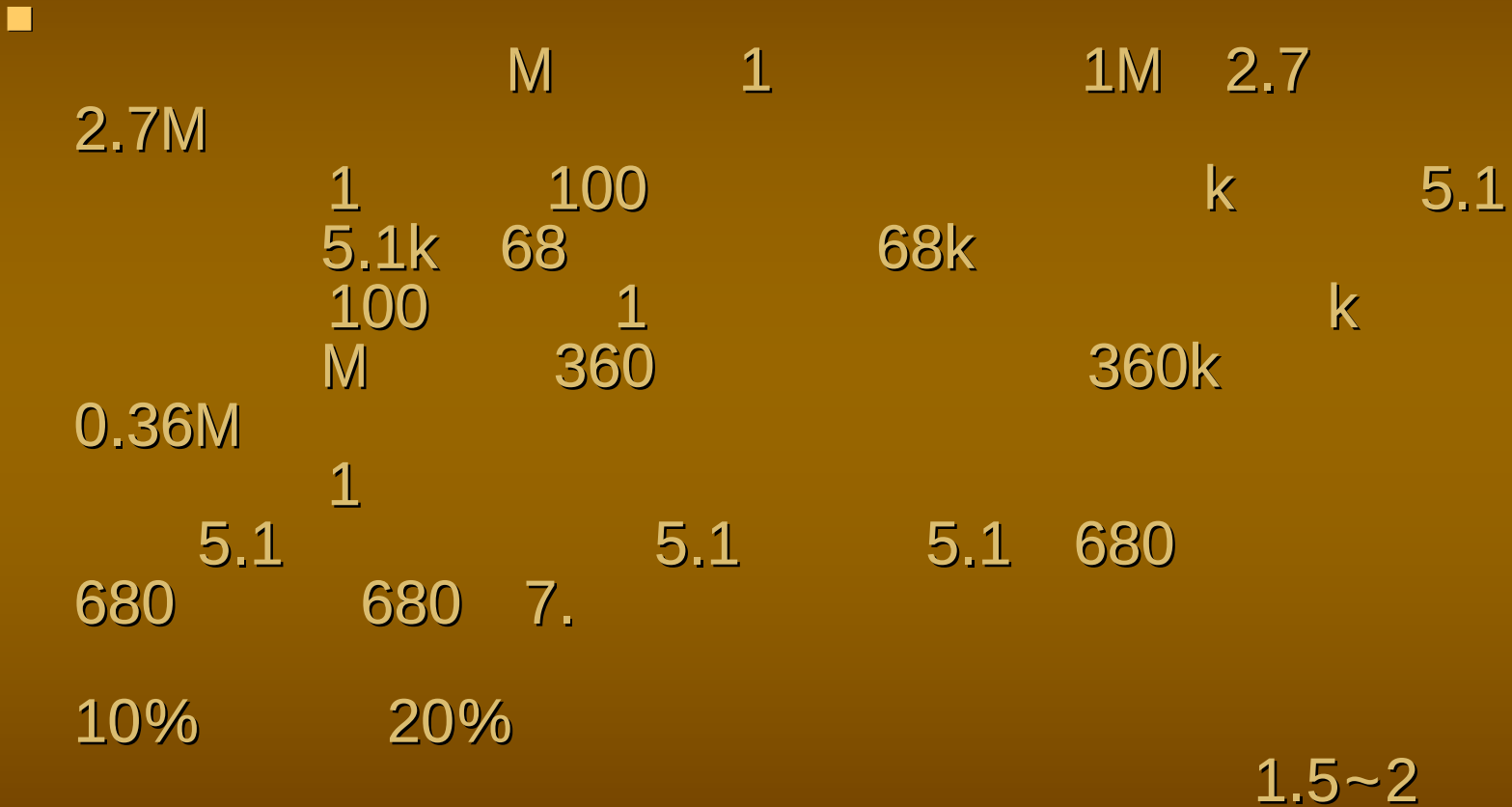
第一位数 (棕)



4

10^3

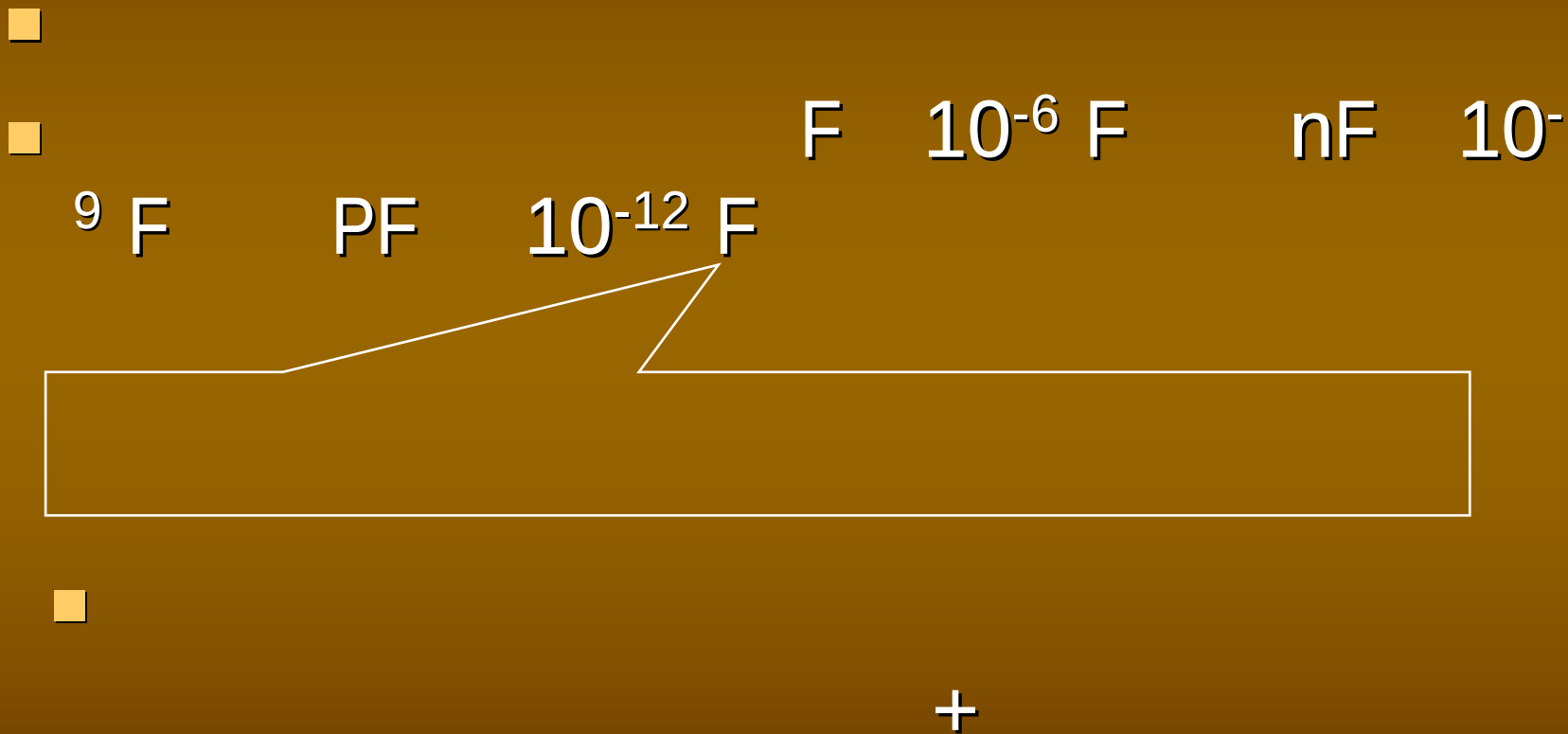














4.7u/16V

4.7 uF

16V

1

,

1

2

4

m u n p

m

10 -3F

u

10 -6F

n

10 -9F

P

10-12F

5n9

33m

33000 u F

47n

0

047 u F

3 u 3

3

3 u F

5900pF

2P2

2

pF

R22

0

22pF

R

R

■ p n u m

p n u m

4n7

$$4.7 \quad 10^{-9} \text{F} = 4700 \text{ pF}$$

■ ()

,

pF

1

CR

5000pF

0.005uF~1.0uF

2

4

$\text{tg}\delta$

RS

$$\text{tg} \delta = \text{RS} / \text{XC} = 2 * 3.14 * f * C *$$

RS

5

CC1

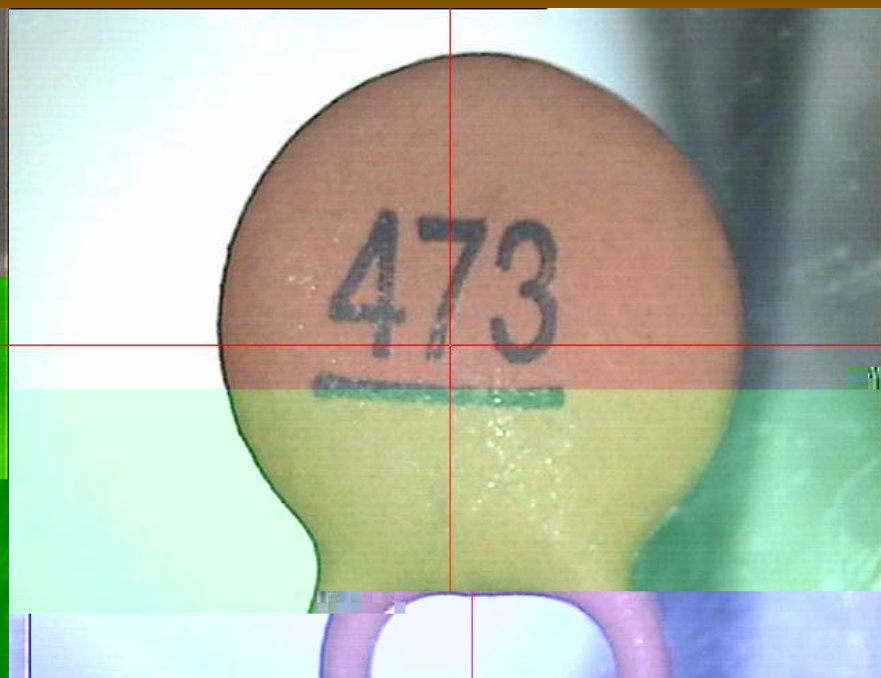
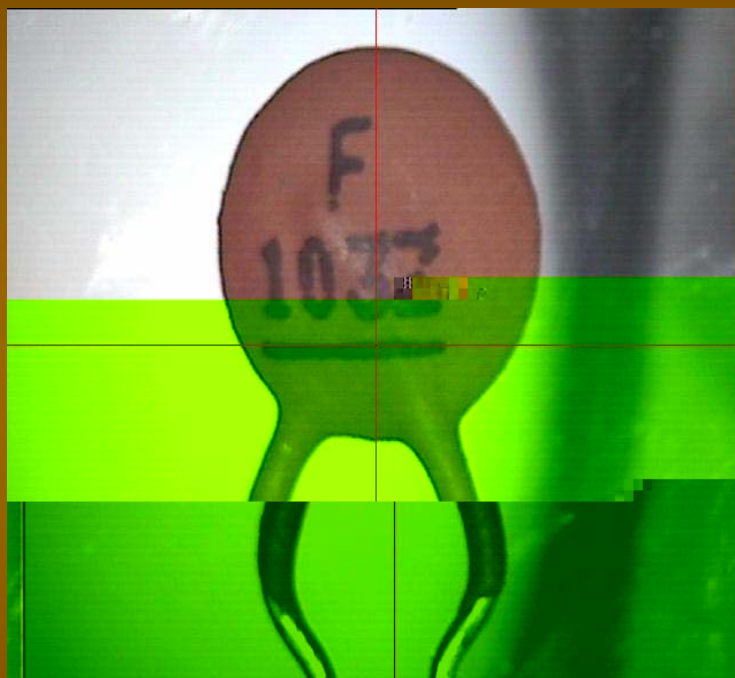
CT1

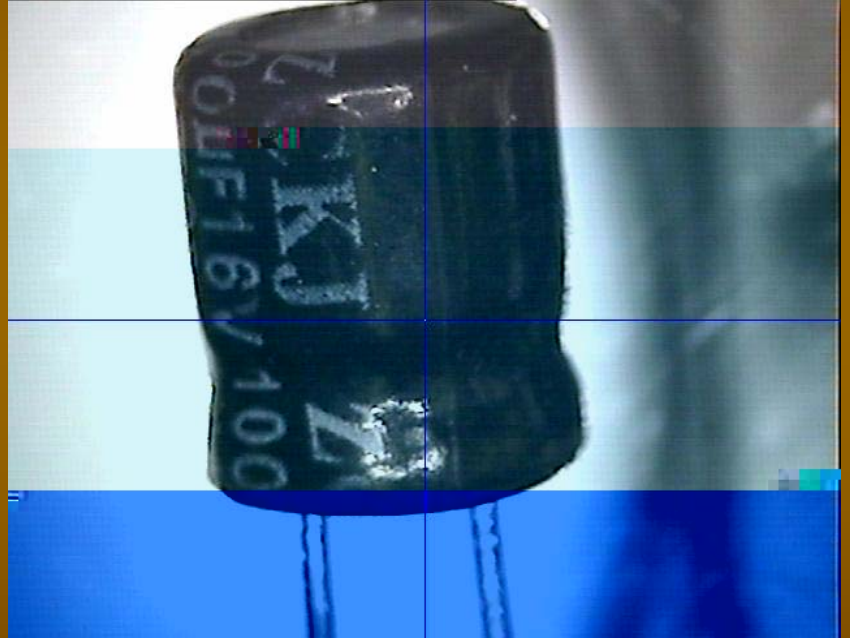
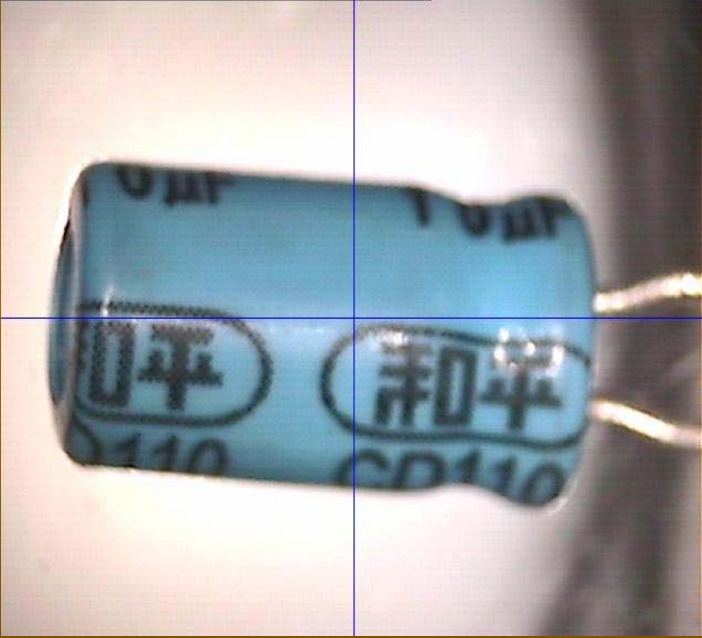
CS1

CC81

CT81

CT7





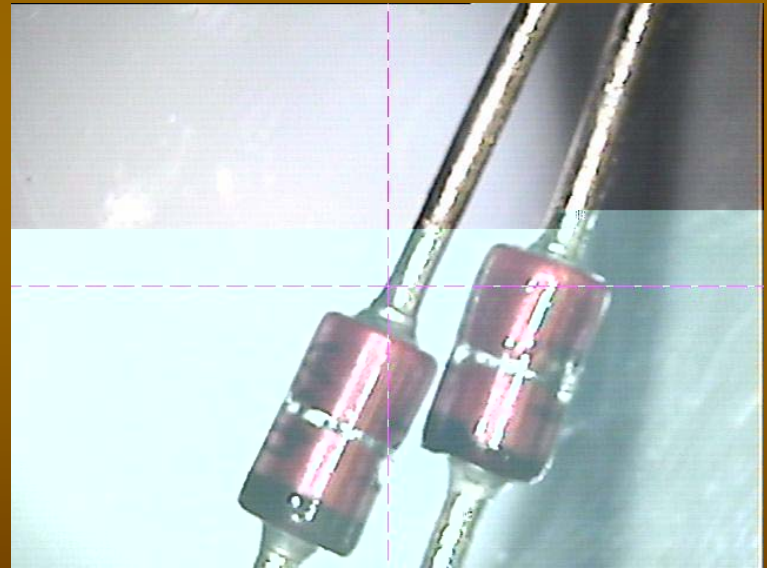
500V

“ ” “ ”

“ ”

“ ”

PN



0

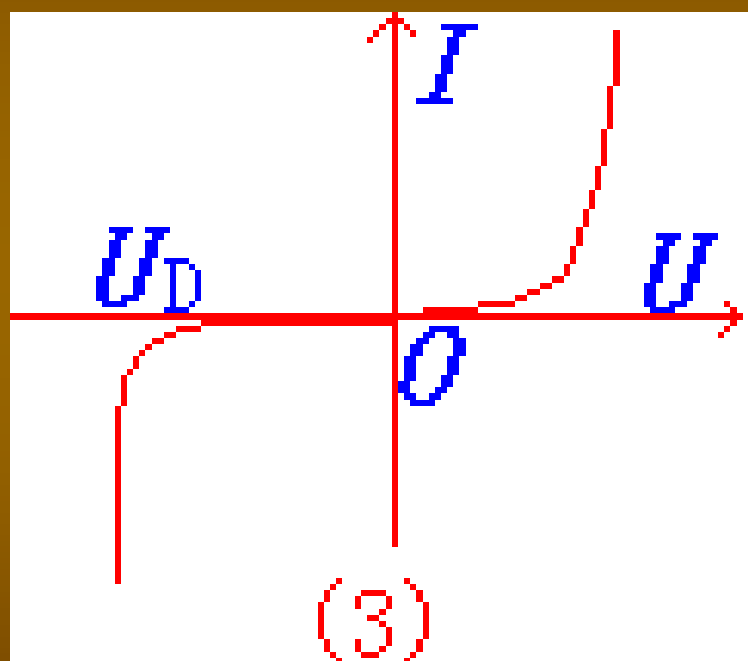
“

”

0.1V

0.5V

PN





■ 3

■

■ 4

■

■

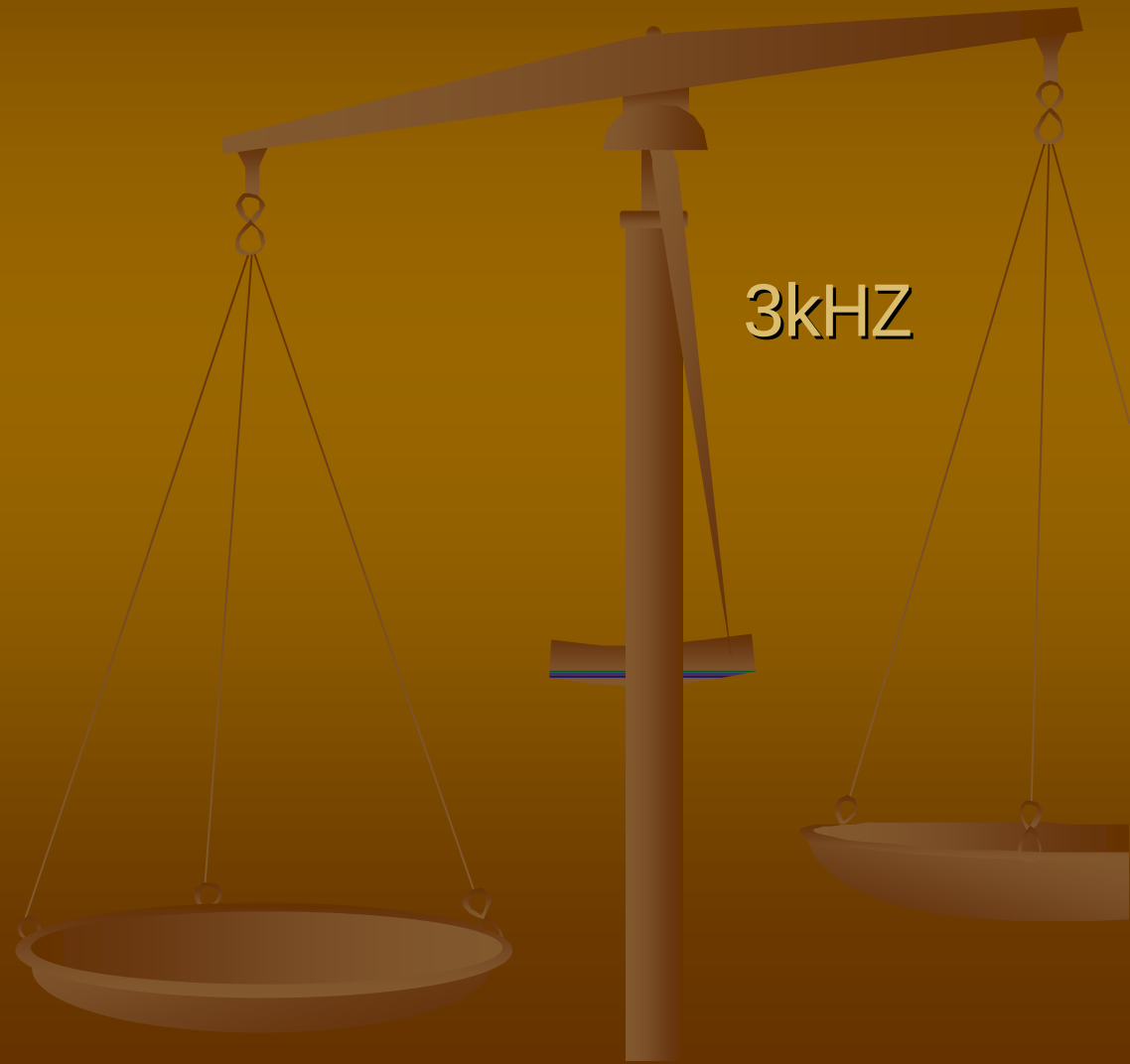


- 1

-

- 2

-



■ 3



■ 4



2CN2 BS 4





■ 6
■

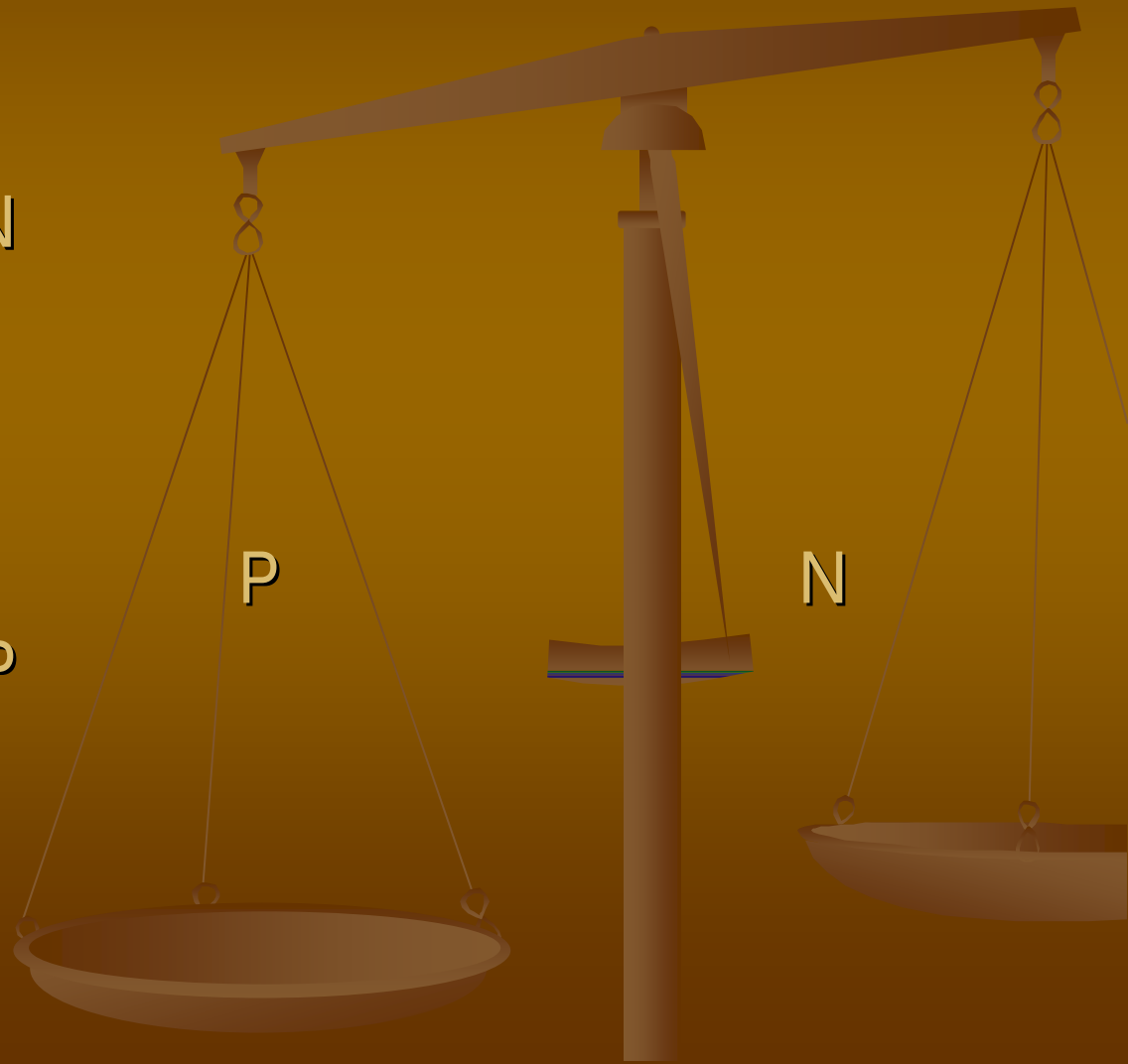
PN
N

PN

P

P

N



1

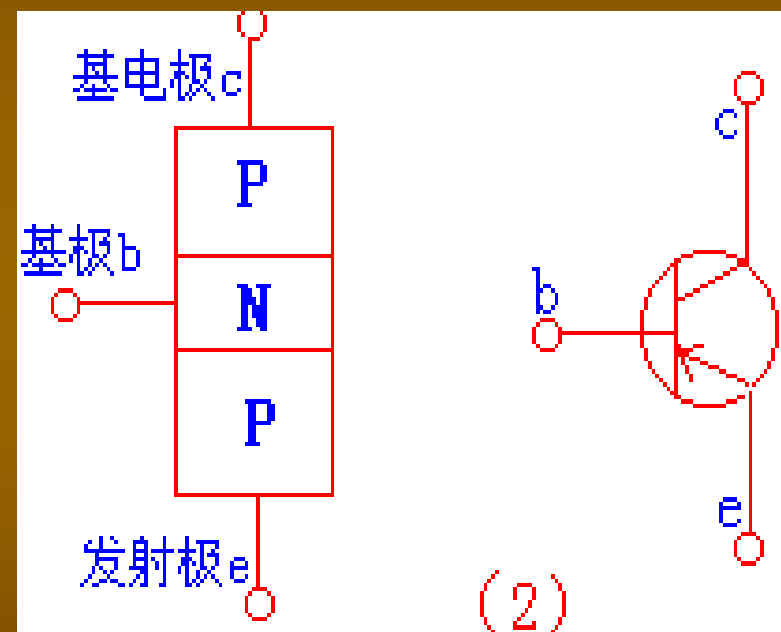
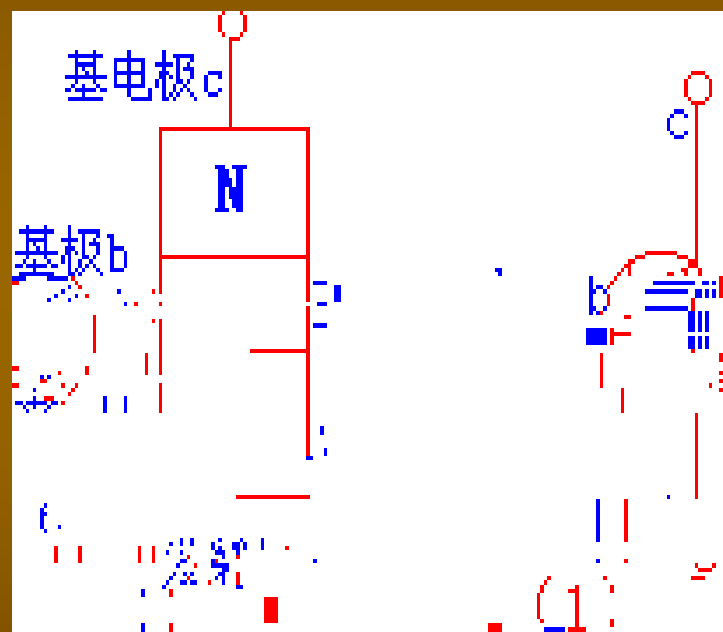
PN

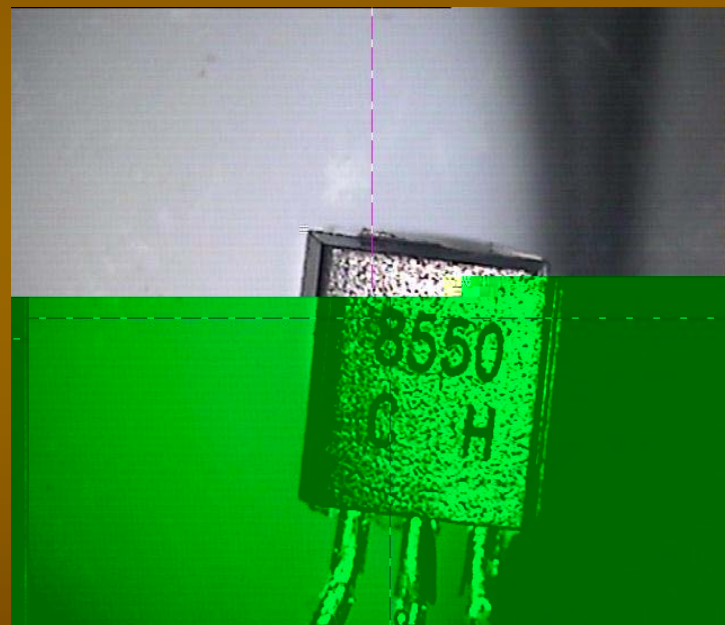
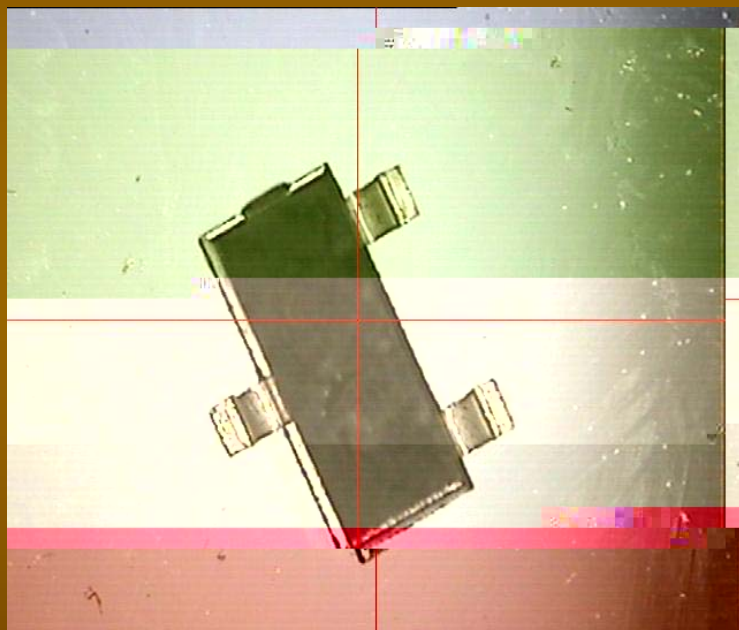
2

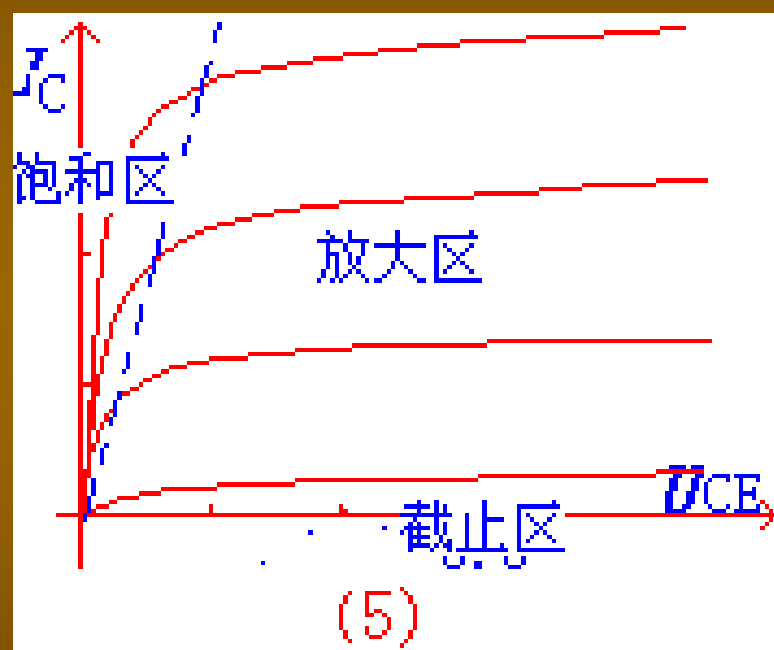
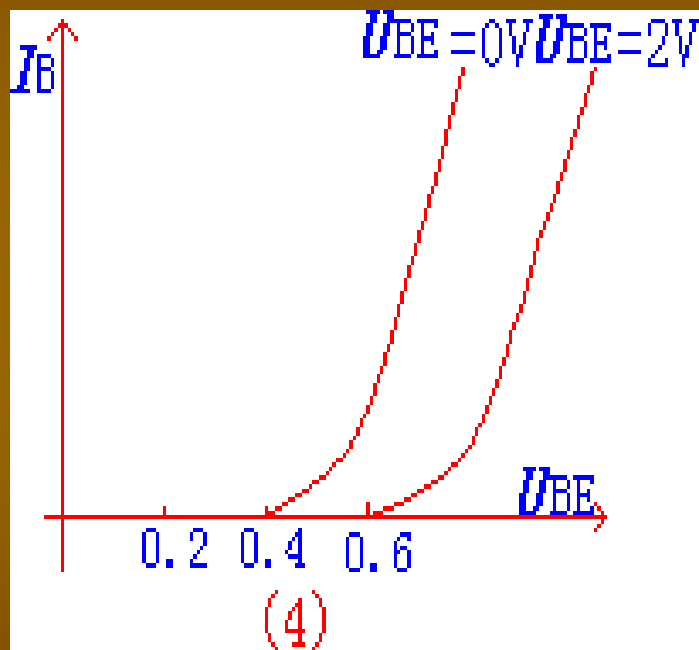
PN

PNP

NPN





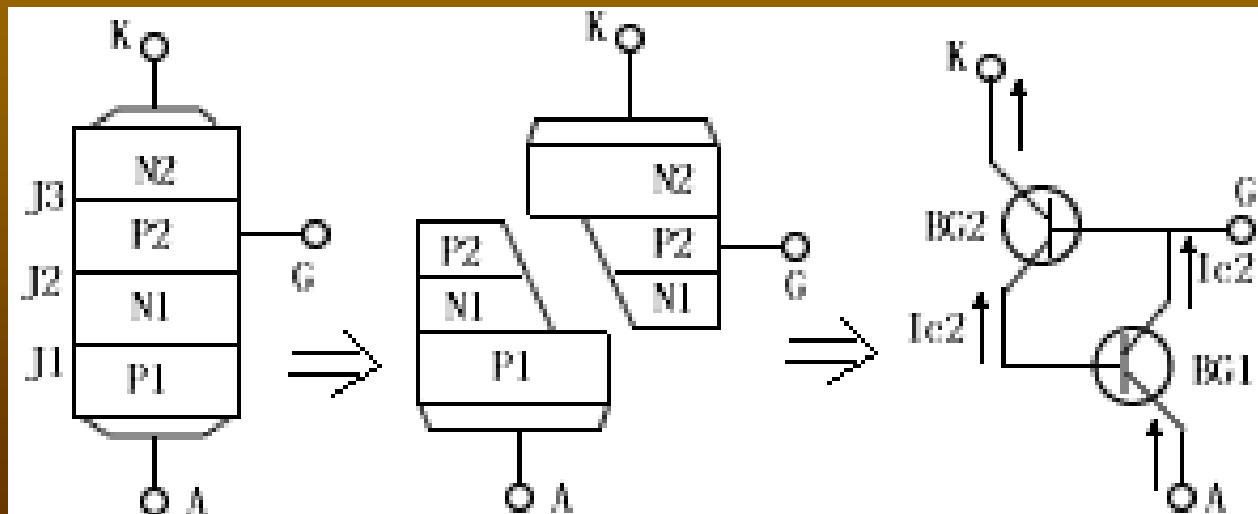


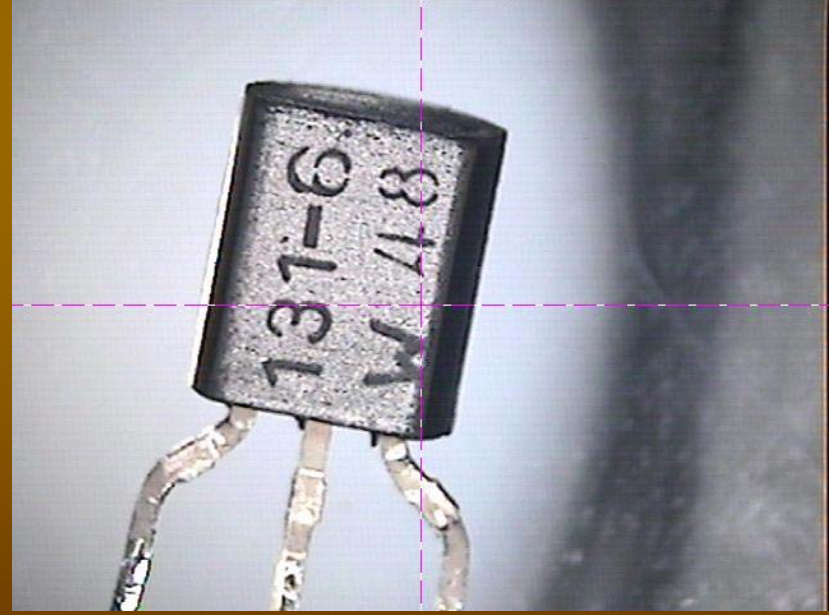
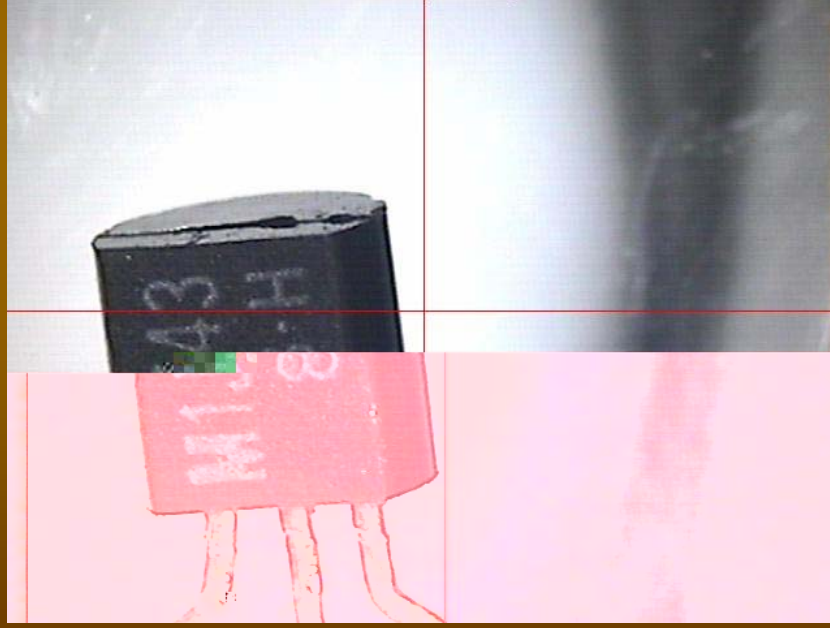
P1N1P2N2

PN

PNP

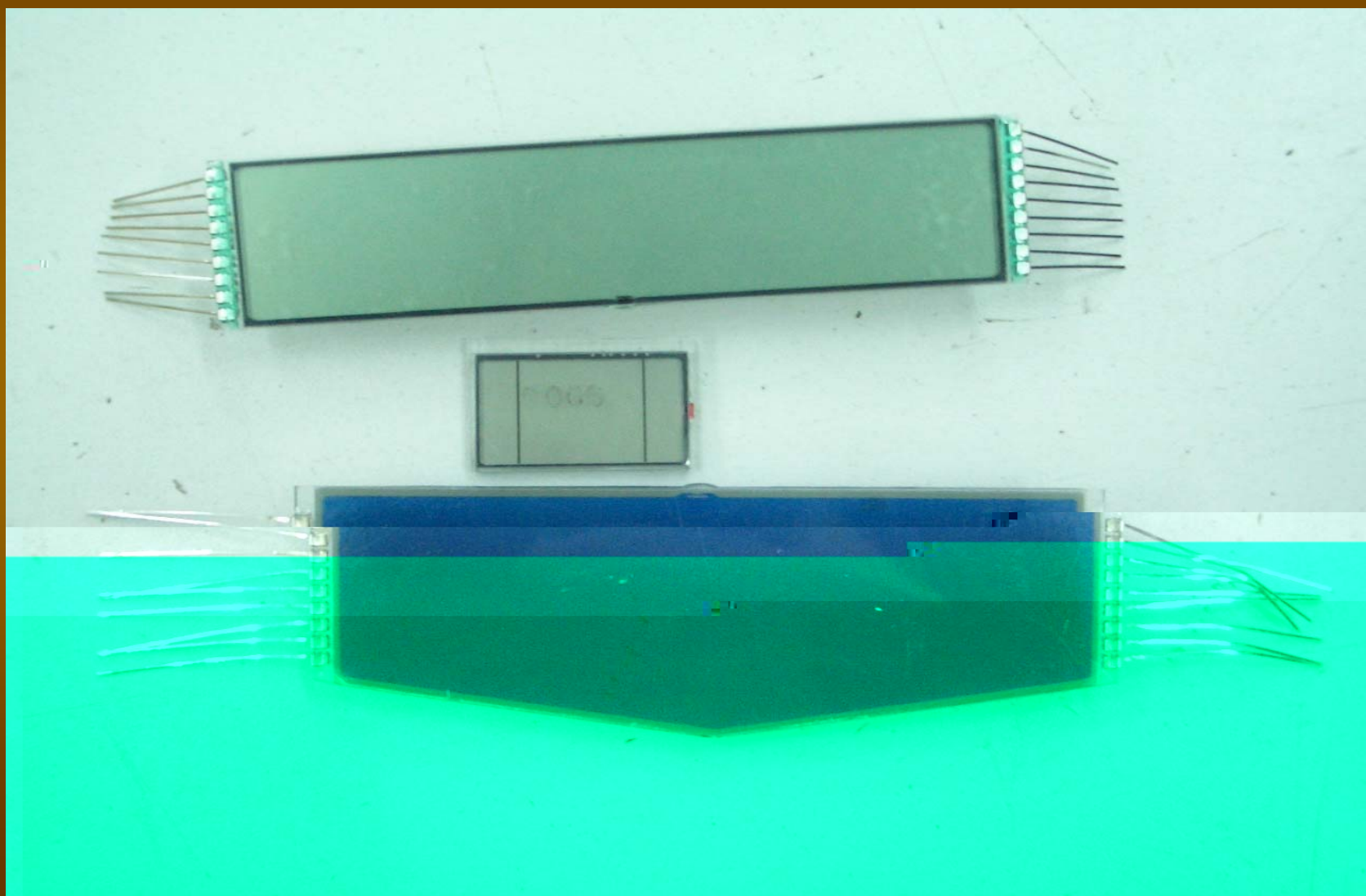
NPN





20

60





- B

- B

- $B = [T_1 * T_2 / (T_2 - T_1)] * \ln(R_1 / R_2)$

-

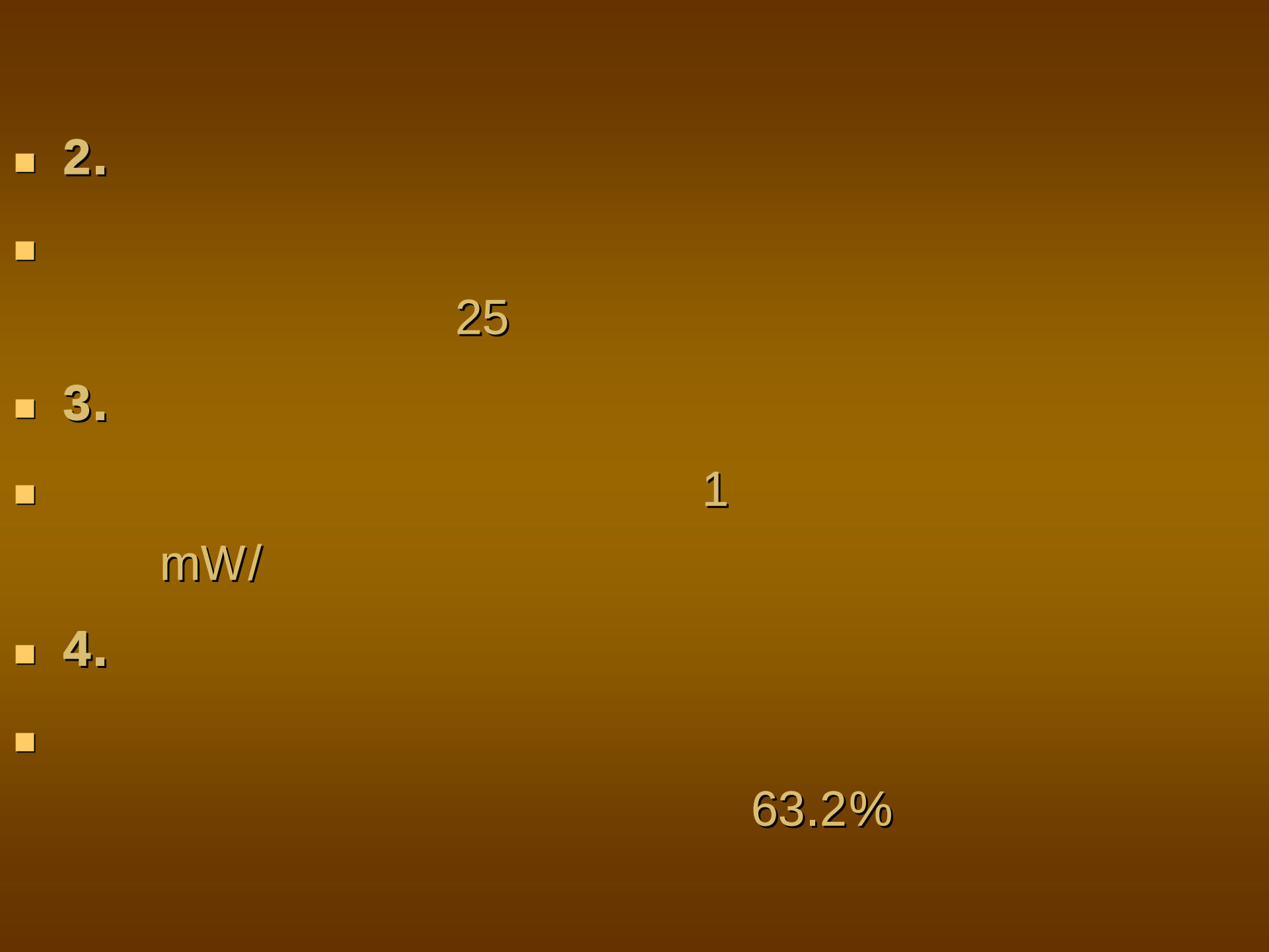
- B----- K

- R_1 ----- T1

-

-

-) 323.15K(50)



7805/7812





()



OMRON
G4A-1A-E-CN
12VDC
20A 250VAC~
10Z4C

JQX-102F
12VDC
20A 250VAC
1HP 120VAC
2HP 240VAC

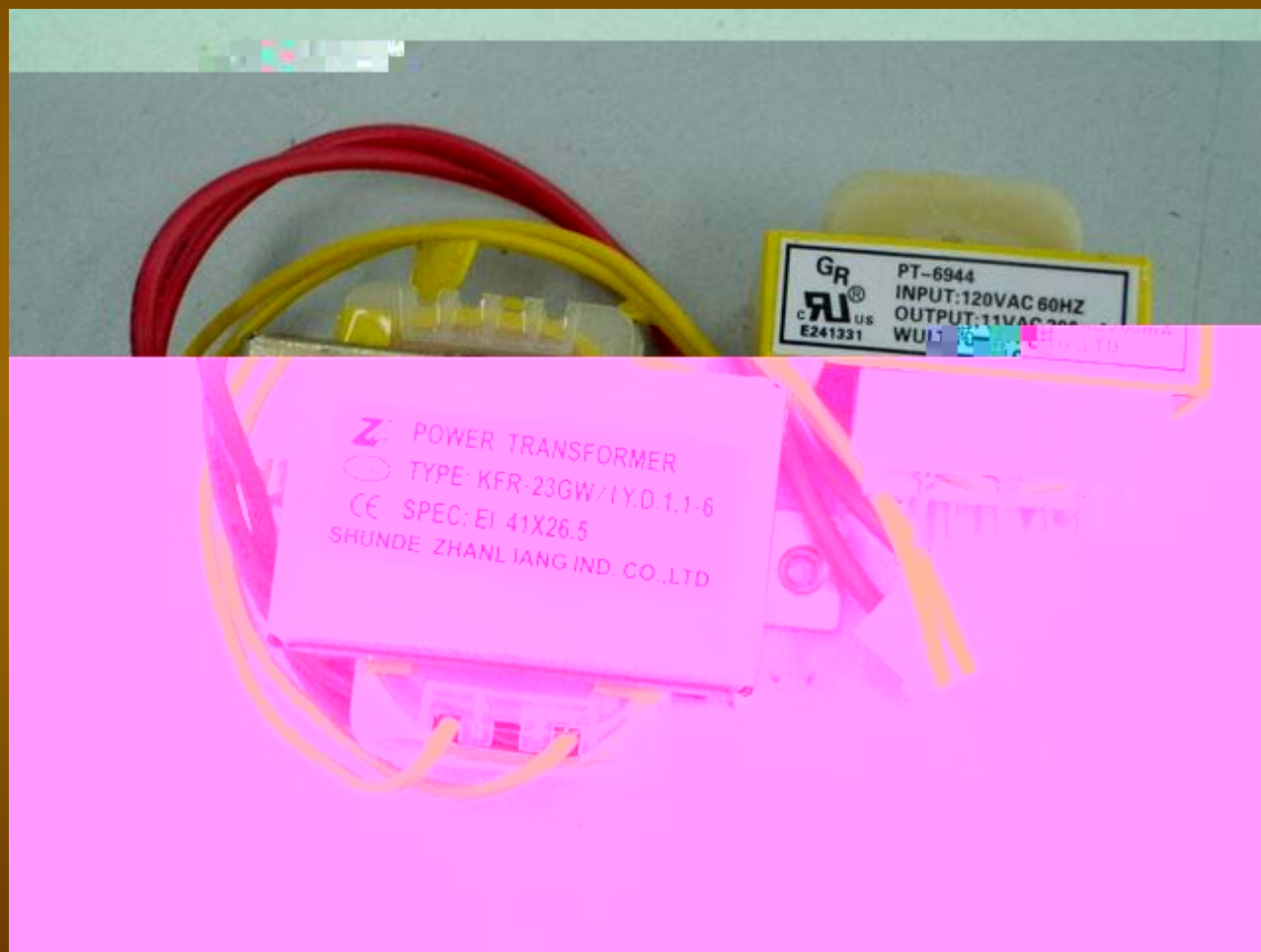
891WP-1A-C
12V-DC
25A 250V~
50/60Hz
S0441





2

50V



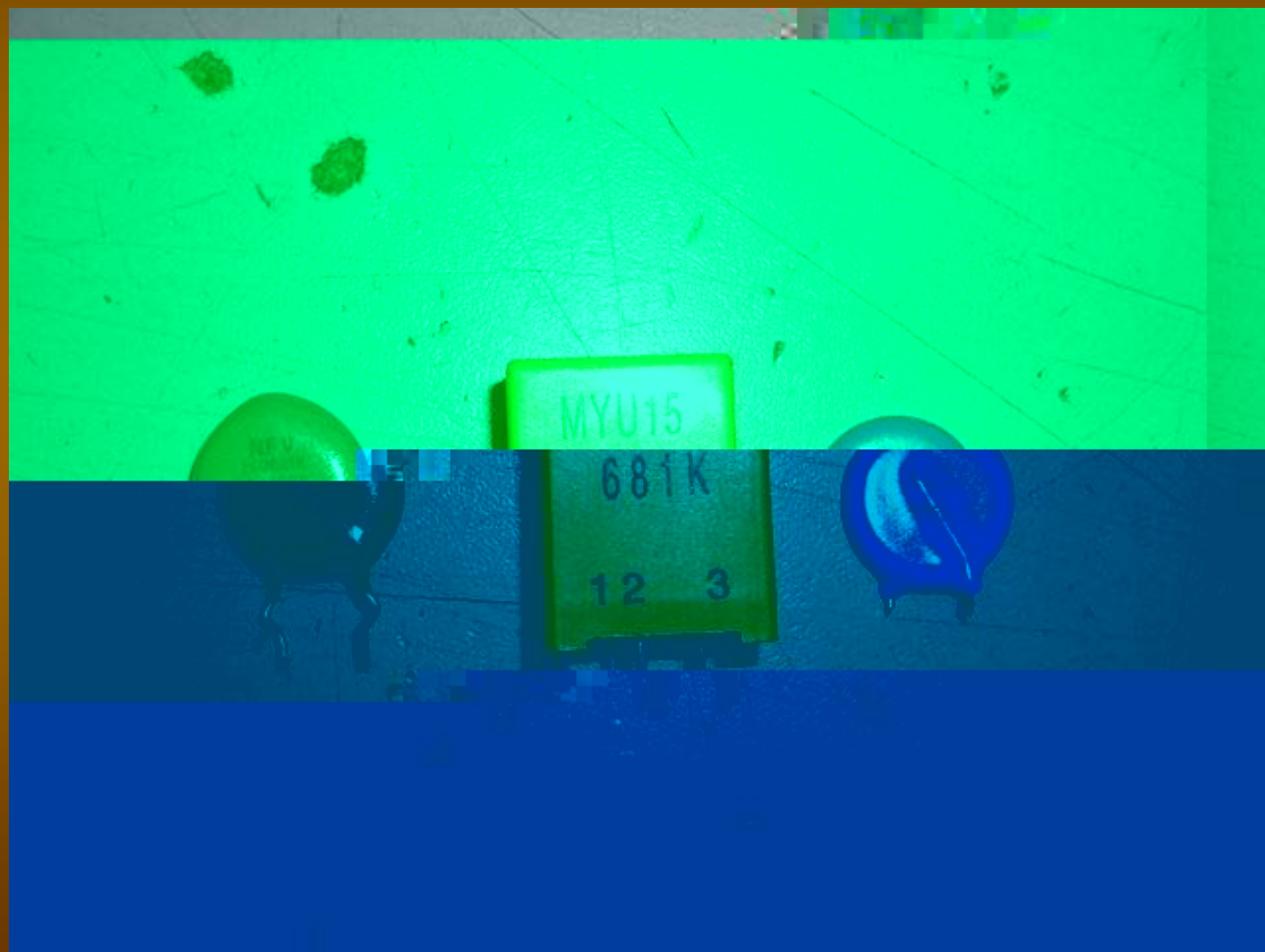




↵

□ □ □ — □□ + □□ — □ □ (表示带保护器,用“F”表示,没有保护器可省略)↵

↵	↵	↵	↵	↵	↵	↵
						设计序号,用数字表示↵
						另一组输出:表示同上。只有一组输出可省略不写,↵ 输出线用蓝色↵





10^{12} 10^{13} /cm



PTC-S

PTC

VDR



PTC

1.1



25

PTC

2

DC1.5V

■ 1.1

■ PTC

1

表 1 不动作特性测试条件↵

不动作电流 (mA) ↵	符合产品规格书要求↵
温度 (°C) ↵	55 ± 2 ↵
通电时间 (min) ↵	60↵
$ R - R_0 / R_0$ ↵	$ \Delta R / R \leq 20\%$ ↵

PTC

PTC
| R/R| 20%

3

表 3 最大电流测试条件

电压源 V (有效值)	初始电流 A(有效值)	通电时间 (S)	断电时间 (S)	次数
产品规格书要求	产品规格书要求	60	300	10

PTC

$R/R_0 \leq 20\%$

4

表 4 最大电压测试条件

最大电压	初始电流 A (有效值)	通电时间 (分钟)	次数
360VAC	产品规格书要求	15	1

PTC

2

90

5

表 5 恢复时间测试条件

电压源 V（有效值）	初始电流 A（有效值）	通电时间（min）
产品规格书要求	产品规格书要求	10









