## 1-[جدول ارقام](#_Toc349762517)

## 2-[ولت سنج –آمپرسنج-لامپ-حروف](#_Toc349762518)

## 3-[مولد-کلید-مقاومت-خازن-اتصال به زمین](#_Toc349762519)

## 4-[مثالها](#_Toc349762520)

## جدول ارقام

##

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| مقاومت یک رقمی | مقاومت دو رقمی | خازن یک رقمی | خازن دو رقمی | جریان یک رقمی | جریان دو رقمی | مولد |
| Ω **=1­­­**R5 |  Ω **=1­­­**R12 | μF =1­­­C5 | μF =1­­­C15 |  |  | v = ­1­­­ε Ω =1r121A =1­­­I12A =2­­­I5A =1­­­I5 |
| Ω **=­­­­2**R5 |  Ω **=2­­­**R12 | μF =­­­­2C5 | μF =2­­­C15 |  |  | v = ­2­­­ε Ω =2r121A =2­­­I12 |
| Ω **=­­­­ 3**R5 |  Ω **=3­­­**R12 | μF =­­­­ 3C5 | μF =3­­­C15 | A =3­­­I5 |  | A =3­­­I12v = ­3­­­ε Ω =3r121 |
| Ω **=4­­­­**R5 |  Ω **=4­­­**R12 | μF =4­­­­C5 | μF =4­­­C15 | A =4­­­I5 |  | A =4­­­I12v = ­4­­­ε Ω =4r121 |
| Ω **=­­­5**R5 |  Ω **=5­­­**R12 | μF =­­­5C5 | μF =5­­­C15 |  |  | v = 5­­­ε Ω =5r121 |
| Ω **=6­­­­**R5 |  Ω **=6­­­**R12 | μF =6­­­­C5 | μF =6­­­C15 |  |  | v = ­­­ε Ω =r121 |
| Ω **=7­­­­**R5 |  Ω **=7­­­**R12 | μF =7­­­­C5 | μF =7­C15 |  |  |  |
| Ω **=8­­­­**R5 |  Ω **=8­­­**R12 | μF =8­­­C5 | μF =8­­­C15 |  |  |  |

# ولت سنج –آمپرسنج-لامپ-حروف مولد-کلید-مقاومت-خازن-اتصال به زمین

ε و r

 **­­­­**R

HCAR2

GCAR2

ECAR2

BCAR2

ACAR2

CAR2

DCAR2

**v**

**v**

**v**

**v**

**v**

**v**

**v**

**v**

**A**

KGCAR2

IFCAR2

#

R1=10Ω 

## مثالها

M

N

**v**

**A**

Ω

Ω

**4**

3

6

**7**

Ω

v

Ω

**12**

**30**

12

6

ACAR2

BCAR2

**10**

**15**

Ω

Ω

Ω

Ω

Ω

R

R

(1)

(2)

(4)

(3)

**A**

**A**

**A**

**A**

R

R

R

R

R

R

R

R

R

R

R

R

(1)

(2)

(4)

(3)

**A**

**A**

**A**

**A**

R

R

R

R

R

R

R

R

R

R

Ω

x

Ω

**2**

12

Ω

6

**3**

Ω

4= ­1­­­C

6= ­2­­­C

3= ­3­­­C

L

2

L

1

L

3

**1**

ACAR2

3

Ω

2

Ω

Ω

Ω

4

A =­­­I

6

C

BCAR2

**A**

**B**

r

1

r

2

**R**

**V**

**A**

r

R

1

R

2

K

0=

­­­ε





cm5

cm4

ABR1

 **v**30 = ­2­­­ε

**Ω** 1= 2r

**­**Ω **5=­­­­ 1**R

**­**Ω **8=­­­­ 2**R

 **v**20 = ­1­­­ε

**Ω** 5/0= 1r

 **v**20 = ­3­­­ε

**Ω** 5/0= 3r

CAR2

BR1



3- = q

1



3- = q

2

3+ = q

3



60

60

m 1= a

**ACAR2**

**BCAR2**

**CCAR2**

***30***

***60***

60

AR2

BR1

EAR2



M

E

**A**CAR2

**B**CAR2



E

ACAR2

BCAR2

ECAR2

­2­­­C

­1­­­C

r

**V**

**R**

r

**V**

**R**

r

**V**

**R**

r

**V**

**R**

(1)

(2)

(4)

(3)

A

BAR2

A

BAR2

A

A

BAR2

w

**50**

w

**50**

w

**100**

w

**50**

w

**50**

w

**100**

w

**50**

w

**50**

w

**100**

w

**100**

w

**50**

w

**50**

(1)

(2)

(4)

(3)

Ω **=­­­­1**R

4

ACAR2

E

Ω **=­­­­2**R

4

v = ­1­­­ε

 Ω =1r

10

1

**B**

**V**

**A**

**I**

ACAR2

BCAR2

Ω **=­­­­2**R

2

Ω **=­­­­1**R

2/3

Ω **=­­­­4**R

8

Ω **=­­­­5**R

4

Ω  **=3**R

Ω **=­­­­7**R

3

Ω **=­­­­8**R

2/3

Ω **=­­­­6**R

6

**12**

**­­­­ 1**R

**­­­­ 2**R

ε و r

**A**

**V**

4= ­1­­­C

6= ­2­­­C

3= ­3­­­C

**A**

**3**R

Ω **=­­­­1**R

3

Ω **=­­­­2**R

6

 v = ­­­­ε

 Ω =r

12

0/5