Individ	ual Resistor Value	(R,) !	The art of the property	A. C.
51 no.	Valtage (v) [0 to 200 20 v]		current (I) (mA)	R ₁
	5 50		7	
1	0		0	
2 .	0.50		10.7	
3.	1.50		21.9	
4.	1.50		32.9	
5.	2.00	*****	43.2	
6.	2.50	*	54.2	•,
٦.	3.00	·	65. 7	. ?
	3.50		76.1	. (2
8.		* 2 *		• `.
9.	4.00		87.5	
LO.	4.50	8 - 1 m	97.8	• /
11,	5.00	y (3)	109.9	. *
12.	5.50		120.5	*
13.	6.00	in a fit	132.4	., 1
14.	6.50	1 ** >	141.7	s 4
Is.	7-00	100	153.4	a *):
16.	7.50	' • <u>.</u> . '	165.0	*\``
17.	8.00	1.5	177.6 32.8	18.
18.	8.50	٠, ج ١	189.2 00.1	. 4" 1
19,	9,00		199.7	

St Indi	vidual Registor Value:			
,9	(Any) VA +	I		. ,
l	Thurson in .	0	the state of the s	
2	0.5	4.7	77.7	
3	00.1	10.1		-
4.	1.50	15.3	Ö, ,	
۶.	2.00	20.8		. }
6.	2.50	25.5		
7.	3.00	29.8		. •
8.	3.50 (36.2		•
٩.	4.00	40.8		. · ·
10.	4.50	46.0		F
) H.	5. 00	50.7		6 4 5
	7 .			· ·
12 🗫	5.50	56.1		*
13.	6.00	62.0		, 4
14.	6.50	66.5	• • • • • • • • • • • • • • • • • • • •	٠.;
15.	7.00	72.4		~ * ·
16.	7.50	77.1		
17.	8.00	82.8		÷
17.	8.50	87.6		*
19.	9.00	93.1	~./	• 1
				4.7

Individual	Registor	value: (R3)	· 1000年 (大大大学)	·
si no.	V	Ī	\$1.50 M. S. 11-5	
1	0	A 1 0	.v.X	. 3W 18
2	0.50	2.4	· · · · · · · · · · · · · · · · · · ·	
3	1.00	4.4		2
4.	1.50	6.9		
5.	2.00	٩.3		4
6.	2.50	11.7	7 N.2"	5
7	3.00	\\ \3.7		, à
8	3.50	16.4		7.
9.	4.00	. 478.5	14.3	. 8
10.	4.50	.20.9	1 1	.19
11.	5.00	23.0	7-3	.01
12.	5.50	25.6	11.2	ا ا ا کو
13.	6.00	27.8	7 30. k	.81
14.	6.50	30.1	`	.44
15.	7.00	32. ⁹	304	,71
16.	7.50	3 5.0	inter all	s 7+
17.	8.00	37.4	· V. /	.7.1
18.	8.50	39.6	3	.81
19.	00.P	92.1	00.0	PI

Series resistance: &R, &R) (R, & R)

SI no.	V(v)	I (mA)		
1 :	0			
2	0.50	3.6		
3	1.00	7.3		
4	1-50	10.7	*	
5	2.00	14.1	* 17 . 00	
6.	2.50	. 47.7	13.1	
7.	3.00	20.6	~ ~	
8.	3.50	24.2		
9.	4.00	.27. 8	ý	
10,	4.50	्रह्मा		V
И.	5.00	34.6	7. 1	, , , ,
12,	5, 50	38.5	~ * ¢	* ~
13.	6.00	41-8	i gil 🙀	
14.	6. 50	45.3		4 J
15.	7.00	49.0	·	
16.	7.50	\$2.2	S. S.	
17.	8.00	55.4		
18.	8.50	sq.6		* ,
19.	9.00	63.1		
		ا•د م		

Series Resistance (R & Rg): **∞**. ∨(v) SI no. I (mA) 1 0 0 2 0.50 1.9 3 1.00 3.8 4 ₹61.50 5.7 5 2.00 7.5 6 2.50 9.7 7 3.00 11.6 8 13.4 3,50 9 15.3 4.00 17.2 10 4.50 18.8 5.00 11. 20.9 5.50 12. 22.8 6.00 13. 24.8 6.50 13. 26.7 7.00 15. 28.6 7.50 16. 30.5 8.00 De.17-8.50 32.4 18. \$ 9.00 34.5 18.19.

Series Resistance (RS): (R2 & R3)

SI no.	V(v)	I (mA)
1.	0	0
2.	0.50	1.6
3,	1.00	3.2
4.	1.50	4.8
5.	2.00	6.5
6,	2.50	7.8
7.	3.00	9.5
8.	3.50	11.0
9.	4.00	12-6
lo.	4.50	14.3
11.	5.00	15.7
12.	5.50	17.3
13.	6.00	19.2
14.	6.50	20.7
15.	7.00	22.3
16.	7.50	23.8
17.	8.00	2 5. 6
18.	8.50	27.2
19.	9.00	28.8

1. 0 0
2. 0.50 15.4
3. 1.00 33.4
4. 1.50 48.4
5. 2.00 62.9
8. 2.50 78.5
57. 3.00 96.0
9. 3.50 110.9
9. 4.00 128.8
10. 4.50 143.4
11. 5.00 161.1
12. 5.50 177.8
13. 6.00 192.3

For series
$$R_1$$
, R_2 :
$$\frac{0.01}{6} + \frac{0.1}{41.8} = 0.41\%. \leftarrow \text{Max \%. error}$$

$$\text{Max error} = 0.61\%. \times 143.47 = 0.59$$
For series R_2 , R_3 :
$$\frac{0.01}{6} + \frac{0.1}{122.8} = 0.61\%.$$

$$\text{Max error} = 0.61\%. \times 261.18 = 0.1.60 \text{ n}$$
For series R_2 , R_3 :
$$\frac{0.01}{6} + \frac{0.1}{19.2} = 0.69\%. \times 313.48 = 2.09 \text{ n}$$

I (mA)

Parallel Resistance (R, & R2):

v(v)

SI no.

Parallel Resistance (R, & R3):

SI no.	v(v)	I (mA)
4.	0	0
2.	0.50	12.5
3.	1.00	27.5
4.	1.50	39.1
5.	2.00	52.3
6.	2.50	65.1
7.	3.00	78.4
8.	3.50	92.1
9.	4.00	106.4 Chr
10.	4.50	118.7 13.08.24
11.	5.00	133.2
12.	5.50	146.8
13.	6.00	158.4

6.9 3. 1.00 15.7 1.50 21.8 5 30.2 37.0 2.50 44.3 7 3.00 8 51.4 3.50 60.3 4.00 66.3 4.50 10 73.7 5.00 5.50 81.4 90.1 6.00 13 For R, || R2: $\frac{0.01}{6} + \frac{0.1}{142.3} = 0.22\%$ Max error = 0.22% x 32.15 = 0.07 ~ R1 | R3 : FOY $\frac{0.01}{6} + \frac{0.1}{158.4} = 0.23\%$ Max error = 0.23% x 37.62 1 = 0.09 1 for R2 | R3 $\frac{0.01}{6} + \frac{0.1}{90.1} = 0.28\%$ Max error = 0.28 %. x 67.25 1 = 6.18 1

I (mA) ; 64

Parallel Resistance (R2 & R3);

 $\vee(\vee)$

02.0

SI no.

0

2.