

GABARITO LISTA 2

1)

1.1)

REQ = 400 Ω	FONTE	R1	R2	R3	R4
V (V)	200	50	50	50	50
I (A)	0,5	0,5	0,5	0,5	0,5

1.2)

REQ = 25 Ω	FONTE	R1	R2	R3	R4
V (V)	200	200	200	200	200
I (A)	8	2	2	2	2

1.3)

REQ = 9 Ω	FONTE	R1	R2	R3
V (V)	50	50	50	50
I (A)	5,55	50m	500m	5

1.4)

REQ = 1.009,09 Ω	FONTE	R1	R2	R3
V (V)	25	24,77	0,23	0,23
I (A)	24,77m	24,77m	2,25m	22,52m

1.5)

REQ = 1.625 Ω	FONTE	R1	R2	R3	R4
V (V)	30	18,46	2,31	2,31	9,23
I (A)	18,46m	18,46m	9,23m	9,23m	18,46m

1.6)

REQ = 3.166 k Ω	FONTE	R1	R2	R3	R4
V (V)	60	56,84	3,15	1,26	1,88
I (A)	18,95 μ	18,95 μ	12,6 μ	6,35 μ	6,35 μ

1.7)

REQ = 146,32 Ω	FONTE	R1	R2	R3	R4	R5
V (V)	9	5,48	5,48	3,51	3,51	3,51
I (A)	61,5m	3,57m	24,93m	7,48m	51,67m	24,343m

1.8)

REQ = 222 Ω	FONTE	R1	R2	R3	R4	R5
V (V)	12	3,9	2,29	3,9	1,603	8,1
I (A)	54,05m	4,75m	41,01m	8,29m	41,01m	54,05m

1.9)

REQ = 360,39 Ω	FONTE	R1	R2	R3	R4	R5
V (V)	24	0,86	0,86	24	5,6	17,54
I (A)	66,59m	22,05m	15,35m	29,26m	37,33m	37,33m

2)

2.1)

REQ = 83,3 Ω	FONTE	R1	R2	R3	R4	R5
V (V)	120	46,96	81,336	46,96	34,7	38,66
I (A)	1,432	57,28m	542,24m	838,57m	889,76m	1,432
P (W)	171,83	2,69	44,1	39,38	30,87	55,36

2.2)

REQ = 849,1 k Ω	FONTE	R1	R2	R3	R4	R5
V (V)	150	117,83	117,83	26,49	5,68	123,51
I (A)	176,66 μ	143,69 μ	2,1 μ	176,66 μ	145,79 μ	30,87 μ
P (W)	26,49m	16,97m	247,93 μ	4,68m	828,9 μ	3,81m

2.3)

REQ = 237,24 Ω	FONTE	R1	R2	R3	R4	R5
V (V)	12	12	1,98	0,4	9,62	0,4
I (A)	50,58m	21,43m	29,15m	26,66m	29,15m	2,66m
P (W)	606,98m	257,14m	57,65m	1,06m	280,4m	1,06m

2.4)

REQ = 37,9 Ω	FONTE	R1	R2	R3	R4	R5
V (V)	12	0,72	0,598	10,668	12	1,33
I (A)	316,6m	8,8m	8,8m	8,89m	307,7m	88,8 μ
P (W)	3,798	6,35m	5,2m	94,83m	3,69	118,3 μ

2.5)

REQ = 31,58 Ω	FONTE	R1	R2	R3	R4	R5
V (V)	9	2,839	2,839	6,161	9	6,161
I (A)	284,94m	3,46m	50,69m	41,07m	230,77m	13,11m
P (W)	2,56	9,83m	143,92m	253,05m	2,077	80,76m

2.6)

REQ = 4,29 k Ω	FONTE	R1	R2	R3	R4	R5
V (V)	858	258	600	144	112	112
I (A)	200m	129m	200m	71m	14m	56m
P (W)	171,2	33,28	120	10,36	1,57	6,27

2.7)

REQ = 5,88 Ω	FONTE	R1	R2	R3	R4	R5
V (V)	5,88	1,00	3,00	1,88	1,00	1,88
I (A)	1,00	0,50	1,00	373,33m	0,50	626,67m
P (W)	5,88	0,50	3,00	0,70	0,50	1,18

2.8)

REQ = 10,91 Ω	FONTE	R1	R2	R3	R4	R6
V (V)	32,73	10,79	21,82	21,82	20,45	12,27
I (A)	3,00	2,18	727,27m	1,45	818,18m	818,18m
P (W)	98,18	23,80	15,87	31,73	16,74	10,04

2.9)

REQ = 20 Ω	FONTE	R1	R2	R3	R4	R5	R6
V (V)	18	0	0	0	18	0	18
I (A)	900m	0	0	0	300m	0	600m
P (W)	16,2	0	0	0	5,4	0	10,8

2.10)

REQ = 38,09 Ω	FONTE	R1	R2	R3	R4	R5	R6
V (V)	15	0	0	9,37	5,625	6	9
I (A)	393,8m	0	0	93,75m	93,75m	300,05m	300,05m
P (W)	5,9	0	0	877,96m	527,34m	1,8	2,7