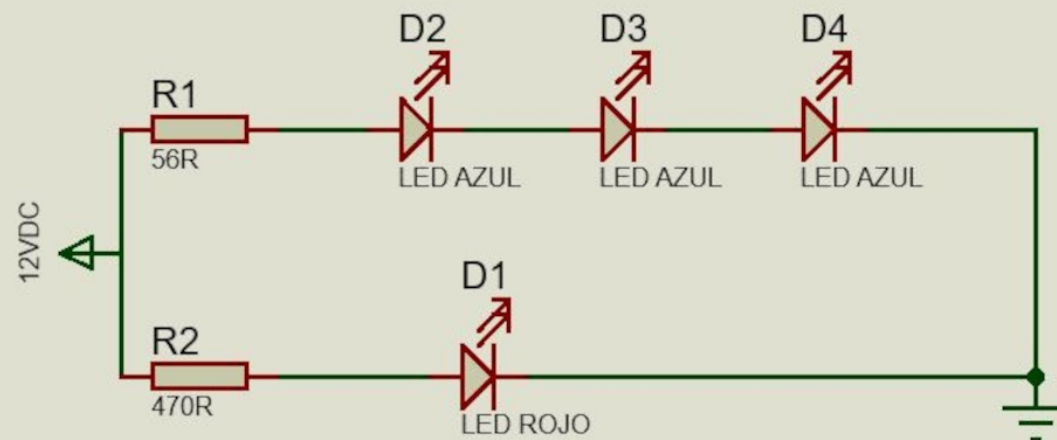
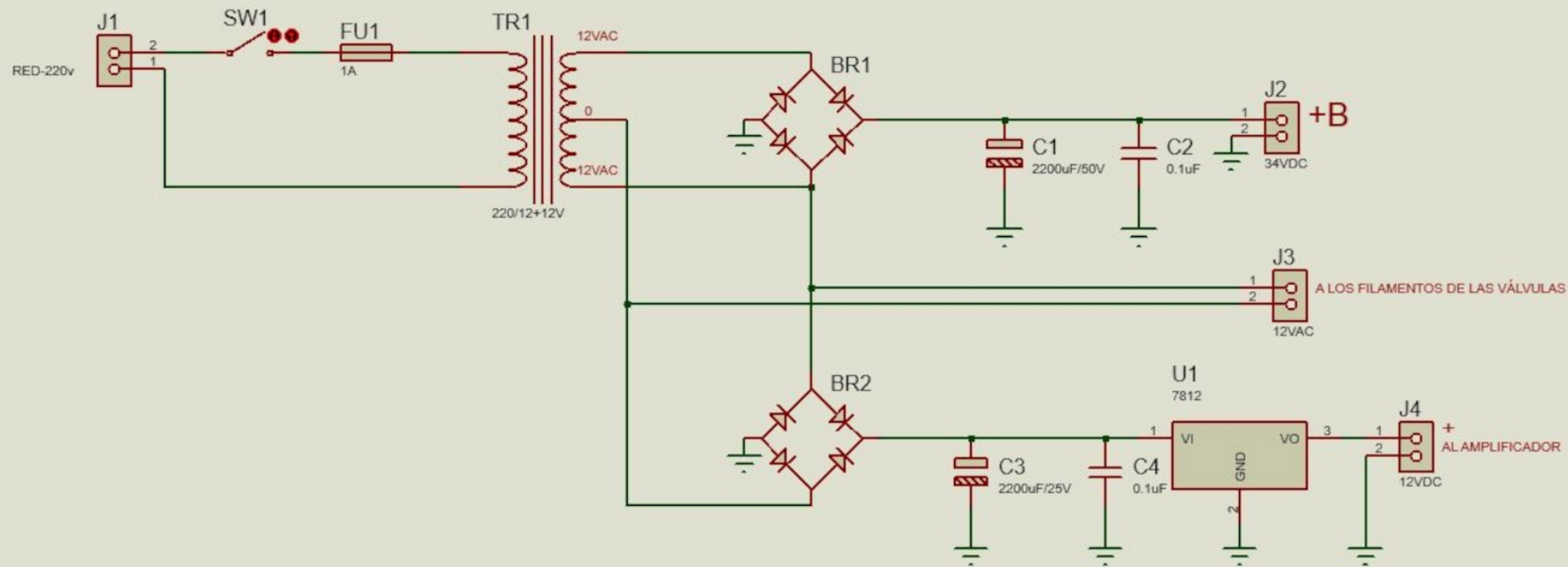
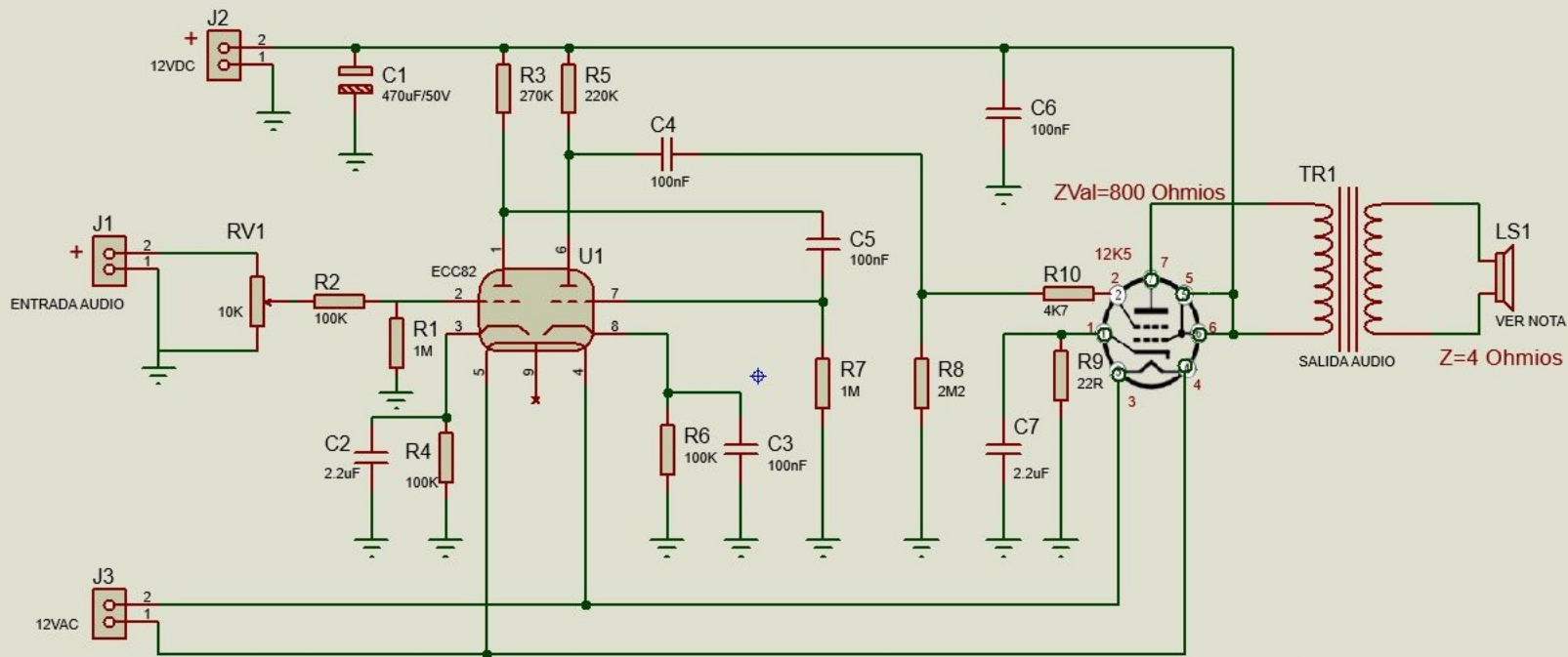


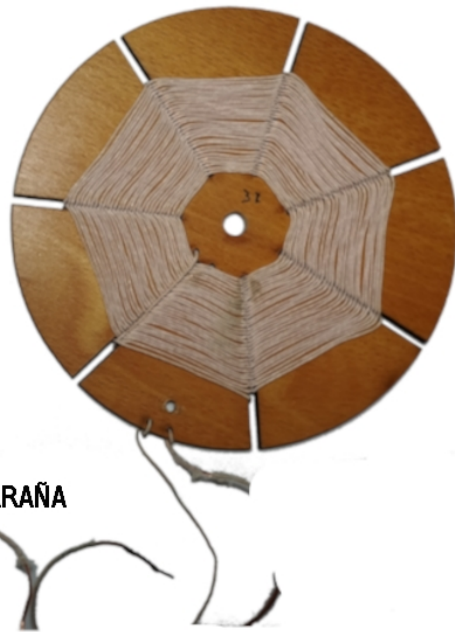




NOTA: LA IMPEDANCIA DEL ALTAVOZ VA EN RELACIÓN CON LA IMPEDANCIA DEL SECUNDARIO Y ASI MISMO LA IMPEDANCIA DEL PRIMARIO ESTA SUPEDITADO A LA IMPEDANCIA DE LA VÁLVULA



DE TELA DE ARAÑA



DE FONDO DE CESTA



CILINDRICA DE OC



CILINDRICA CON ARISTAS

DE TELA DE ARAÑA



100mm

40mm DIAMETRO

60 ESPIRAS CON TOMA EN ESPIRA 15 HILO DE 0,4mm 9 RANURAS

100mm

30 POR CARA



220/9 V

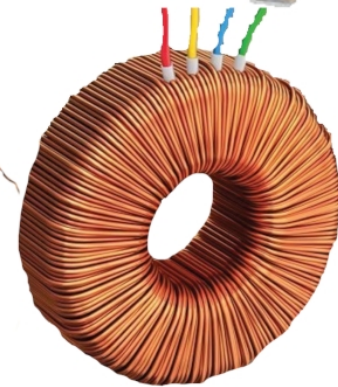


220/9 V

60 ESPIRA CON TOMA EN ESPIRA 15



CILINDRICA PARA OM DIAMETRO 30mm HILO DE 0,4mm



220/24 V



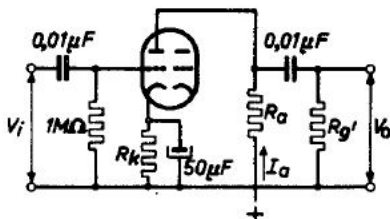
220/12+12 V 220/12V

Typical characteristics
Caractéristiques types
Kenndaten

V_a	=	100	250 V
V_g	=	0	-8,5 V
I_a	=	11,8	10,5 mA
S	=	3,1	2,2 mA/V
μ	=	19,5	17
R_i	=	6,25	7,7 k Ω

Operating characteristics as A.F. amplifier
Caractéristiques d'utilisation comme amplificateur B.F.
Betriebsdaten als NF-Verstärker

A. One section; une section; ein System



a) $R_a = 0,047 \text{ M}\Omega$; $R_{g'} = 0,15 \text{ M}\Omega$; $R_k = 1,2 \text{ k}\Omega$

V_b (V)	100	150	200	250	300	350	400
I_a (mA)	1,20	1,82	2,41	3,02	3,65	4,30	5,00
V_o (V_{eff}) ¹⁾	11	18	26	34	43	51	59
V_o/V_i	13,5	13,5	13,5	13,5	13,5	13,5	13,5
dt_{tot} (%) ²⁾	5,6	6,1	6,3	6,4	6,5	6,6	6,7

b) $R_a = 0,1 \text{ M}\Omega$; $R_{g'} = 0,33 \text{ M}\Omega$; $R_k = 2,2 \text{ k}\Omega$

V_b (V)	100	150	200	250	300	350	400
I_a (mA)	0,66	0,98	1,30	1,63	1,97	2,30	2,62
V_o (V_{eff}) ¹⁾	10	17	25	32	41	49	57
V_o/V_i	14	14	14	14	14	14	14
dt_{tot} (%) ²⁾	4,8	5,6	5,8	5,9	6,0	6,1	6,2

¹⁾ $I_g = + 0,3 \mu\text{A}$

²⁾ About proportional to the output voltage
Environ proportionnelle à la tension de sortie
Ungefähr proportional zu der Ausgangsspannung

MECHANICAL DATA

Bulb	T-5½
Base	E7-1, Miniature Button 7-Pin
Outline	5-3
Basing	7EK
Cathode	Coated Unipotential
Mounting Position	Any

HEATER CHARACTERISTICS

Heater Voltage ¹	12.6 Volts
Heater Current	450 Ma
Heater-Cathode Voltage (Design Center Values)	
Heater Negative with Respect to Cathode	
Total DC and Peak	30 Volts Max.
Heater Positive with Respect to Cathode	
Total DC and Peak	30 Volts Max.

RATINGS (Design Center Values—except as noted)

Plate Voltage	30 Volts Max.
Positive Grid No. 1 Voltage	16 Volts Abs. Max.
Grid No. 1 Supply Voltage	30 Volts Max.
Negative Grid No. 2 Voltage	-20 Volts Max.
Grid No. 2 Circuit Resistance	2.2 Megohms Max.

CHARACTERISTICS

Plate Voltage	12.6 Volts
Grid No. 2 (Control Grid) Voltage ²	-2.0 Volts
Grid No. 1 (Space-charge Grid) Voltage	+12.6 Volts
Plate Current	8.0 Ma
Grid No. 1 (Space-charge Grid) Current	85.0 Ma
Plate Resistance	800 Ohms
Amplification Factor (Grid No. 2 to Plate)	5.6
Transconductance (Grid No. 2 to Plate)	7000 μ mhos

TYPICAL OPERATION

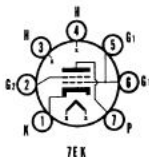
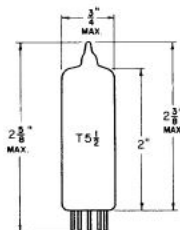
Plate Voltage	12.6 Volts
Grid No. 2 (Control Grid) Voltage ²	-2.0 Volts
Grid No. 1 (Space-charge Grid) Voltage	+12.6 Volts
Peak AF Grid No. 2 Voltage	2.5 Volts
AF Signal Source Resistance	100000 Ohms
Load Resistance	800 Ohms
Plate Current	8.0 Ma
Grid No. 1 (Space-charge Grid) Current	85 Ma
Power Output	35 Mw
Total Harmonic Distortion	10 Percent

NOTES:

- When used in automotive service from a 12-volt source, under no circumstances should the heater voltage be less than 10.0 volts or more than 15.9 volts. These extreme variations in heater voltage may be tolerated for short periods; however, operation at or near these absolute limits in heater voltage necessarily involves sacrifice in performance at low heater voltage and in life expectancy at high heater voltage.
- Obtained by Grid No. 2 rectification in which case the zero signal plate current is approximately 35 Ma.

QUICK REFERENCE DATA

The Sylvania Type 12K5 is a tetrode designed for space-charge operation. It is intended for service as a power amplifier driver where the potentials are obtained directly from a 12 volt automobile battery.



SYLVANIA ELECTRIC
PRODUCTS INC.

RADIO TUBE DIVISION
EMPORIUM, PA.

Prepared and Released By The
TECHNICAL PUBLICATIONS SECTION
EMPORIUM, PENNSYLVANIA

DEC. 1956

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