PENTAGRID CONVERTER

TENTATIVE RATINGS AND CHARACTERISTICS

Filament Voltage DC	1.25	Volts
Maximum Plate Voltage	30	Volts
Maximum Screen Voltage	30	Volts

Direct Interelectrode Capacitances:

	Unshielded	Shie	lded*	l'
Control Grid to all other electrodes	6.5	6.5	μμf.	
Control grid to plate	0.3	0.25	μμf.	Max.
Plate to all other electrodes	4.6	4.0	μμf.	<u> </u>
Oscillator grid to control grid	0.2	0.2	μμf.	Max.
Oscillator grid to all other electro	des 2.6	2.4	μμf.	11
Oscillator grid to screen grid	1.6	1.6	μμf.	1,
Screen grid to control grid	5.5	5.5	μμf.	Ľ

*With 0.405" diameter shield connected to negative filament.

PHYSICAL SFECIFICATIONS

Style	T-3
Base	Flexible Leads
Bulb	T-3
Style Base Bulb Diameter	0.400" Max.
Lead Length	1.25" Min.
Lead Length Overall Length	1.5" Max.
Mounting Position	. Any

BASE PIN CONNECTIONS

Pin | - Internal Connection Pin 2 - Oscillator Grid

Pin 3 - No Connection

Pin 4 - Negative Filament Suppressor

Fin 5 - Positive Filament

Pin 6 - Plate

Pin 7 - Screen Grid

Pin 8 - Control Grid

RMA Basing 8CN-0-0

OPERATING CONDITIONS AND CHARACTERISTICS

from RMA release 467A, Jan. 31, 1947

Filament Voltage DC	1.25	Volts
Filament Current	.040	Ampere
Plate Voltage	30	Volts
Screen Supply Voltage#	30	Volts
Grid Voltage	0	Volts
Plato Current	0.32	Ma.
Scree Current	0.75	Ma.
Plate Resistance	0.3	Megohm
Conversion Conductance	100	μmhos
Oscillator Grid Resistance	0.1	Meq.
Oscillator Grid Current	30	ца.
Control Grid Voltage for Gc = 5 µmhos approx.	-6.5	Volts
* 0		

Screen voltage applied through 10,000 ohms resistor properly bypassed.

OSCILLATOR CHARACTERISTICS®

Anode Grid Current	3.0	Ma.
Hutual Conductance	700	μmhos
Amplification Factor	3 5	-

• In a non-oscillating condition with plate and screen voltage of 30 volts, and o.o volts on the oscillator and control grids.

CIRCUIT APPLICATION

Sylvania Type IC8 is a converter tube for use in very small radio sets. The other types required for a normal set complement and designed for use with it are Types 1Q6 (Diode Pentode), IV5 (Output Pentode) and IW5 (RF Pentode).

This type corresponds in service and circuit requirements to Type IR5 except for optimization of the performance at low voltages. The tinned leads permit direct soldering into the circuit to permit great reduction in size of completed equipment, or may be cut off for use in a socket designed for this purpose.

When used on battery supply the filament voltage must never exceed 1.5 volts. For AC-DC power line operation, the design center is 1.2 volts.

> COMMERCIAL ENGINEERING DEPARTMENT Sylvania Electric Products Inc., Emporium, Pennsylvania

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