



1610

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CRYSTAL-OSCILLATOR PENTODE

Filament	Coated	
Voltage	2.5	a-c or d-c volts
Current	1.75	amp
Transconductance		
for plate current of 31 ma.	2500	μ mhos
Direct Interelectrode Capacitances:		
Grid to Plate	1.2	μ pf
Input	8.6	μ pf
Output	13	μ pf
Maximum Overall Length		5-3/8"
Maximum Diameter		2-1/16"
Bulb		ST-16
Base		Medium 5-Pin

MAXIMUM RATINGS and TYPICAL OPERATING CONDITIONS**R-F POWER AMPLIFIER & OSCILLATOR - Class C Telegraphy***Key-down conditions per tube without modulation**

D-C Plate Voltage		400 max.	volts
D-C Screen Voltage (Grid #2)		200 max.	volts
D-C Grid Voltage (Grid #1)		-100 max.	volts
D-C Plate Current		30 max.	ma.
D-C Grid Current		3 max.	ma.
Plate Input		9 max.	watts
Screen Input		2 max.	watts
Plate Dissipation		6 max.	watts

Typical Operation:

Filament Voltage	2.5	2.5	a-c volts
D-C Plate Voltage	300	400	volts
D-C Screen Voltage	125	150	volts
D-C Grid Voltage	-60 [▲]	-50 [▲]	volts
Peak R-F Grid Voltage	110	75	volts
D-C Plate Current	30	22.5	ma.
D-C Screen Current	13	7	ma.
D-C Grid Current	2.5	1.5	<u>approx. ma.</u>
Driving Power	0.25	0.1	<u>approx. watt</u>
Power Output	5	5	<u>approx. watts</u>

* Modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed 115% of the carrier conditions.

▲ Bias may also be obtained with 30000-ohm grid resistor.

For use of the 1610 at the higher frequencies, refer to sheet
TRANS. TUBE RATINGS vs FREQUENCY.

JUNE 21, 1937

RCA RADITRON DIVISION
RCA MANUFACTURING COMPANY, INC.

TENTATIVE DATA

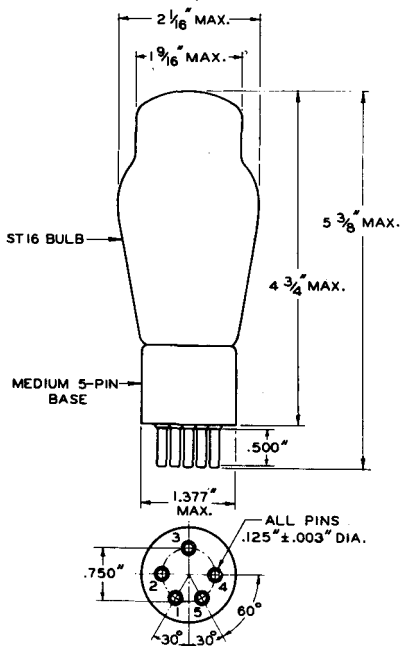
1610



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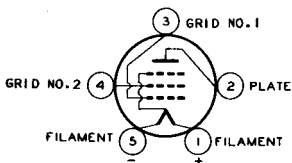
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BOTTOM VIEW OF BASE

92C-4770

TUBE SYMBOL & TOP VIEW
OF
SOCKET CONNECTIONS



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TENTATIVE DATA

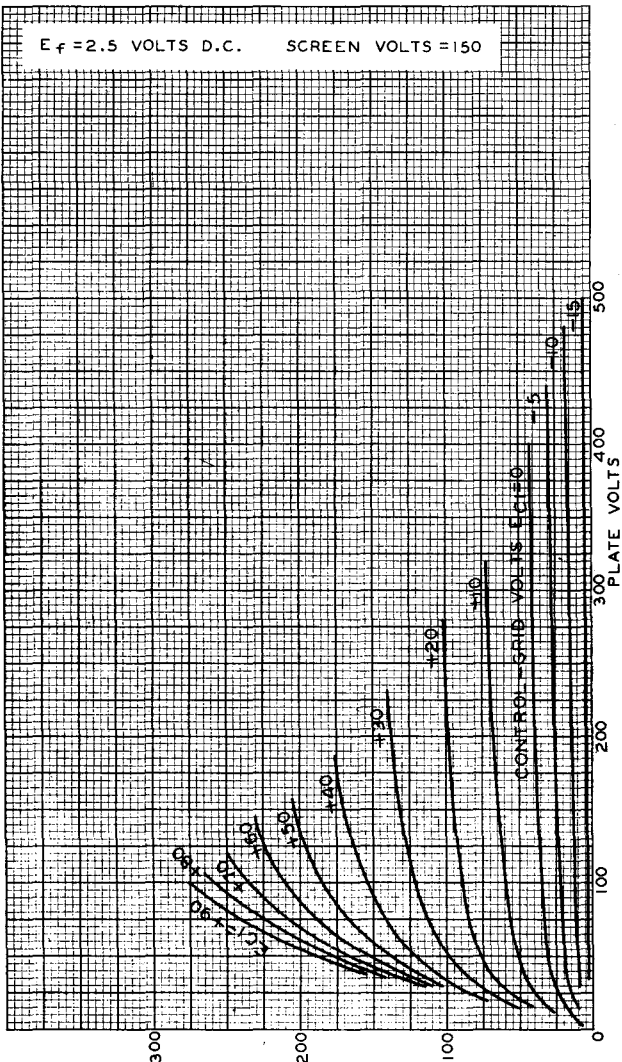


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AVERAGE PLATE CHARACTERISTICS

$E_f = 2.5$ VOLTS D.C. SCREEN VOLTS = 150



300

200

100

0

PLATE MILLIAMPERES

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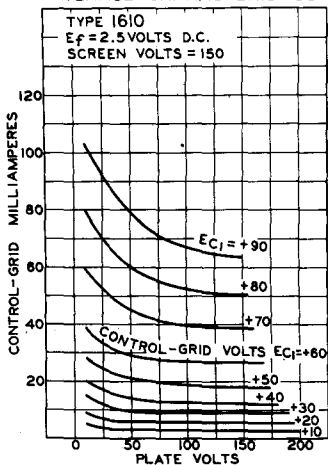
92C-4773

JUNE 8, 1937



CRYSTAL-OSCILLATOR PENTODE

AVERAGE CHARACTERISTICS



AVERAGE CHARACTERISTICS

