

OSCILLATOR TRIODE

For use at frequencies up to 1200 Mc approx.		
Heater Coated Unipotential Cathode		
Voltage 6.3	a-c or d-c v	volts
Current 0.225	á	amp.
Direct Interelectrode Capacitances:0		· ,
Grid to Plate 1.9	J	uµf
Grid to Cathode & Heater 2.0	ļ.	μf
Plate to Cathode & Heater 0.6	ı	μ f
Overali Length	1-7/32" ± 5	5/32"
Overall Diameter (including radial pins	1-3/32" ± 1	
Bulb See Outline in		T–4½
Base General Section	} {Small Radial 1	7–Pin
Pin 1-Heater 3-9	Pin 5-Grid	
Pin 2-Grid	Pin 6 - Heater	
Pin 3-Plate	Pin 7 - Cathode	9
Pin 4-Plate		
Mounting Position	,	۹пу
BOTTOM VIEW (7BR)		
Maximum Ratings Are Design-Center Values		
A-F AMPLIFIER		
Plate Voltage	150 max. v	vo1ts
Plate Supply Voltage		volts
Plate Current	15 max. r	na.
Plate Dissipation	2 max. v	
D-C Heater-Cathode Potential	80 max. v	voits
Characteristics - Class A, Amplifier:		
Plate Voltage		volts
Cathode-Bias Resistor		ohms
Amplification Factor	17	
Plate Resistance		ohms
Transconductance		nhos.
Plate Current	•	na.
R-F POWER AMPLIFIER & OSCILLATOR - Class C Telegraphy		
D-C Plate Voltage	150 max. v	
D-C Plate Supply Voltage	300 max. v	
D-C Grid Voltage	-50 max. v	
D-C Plate Current	20 max. r	
D-C Grid Current	8 max. r	
Plate Dissipation	2 max. v	
D-C Heater-Cathode Potential	80 max. v	voits
Typical Operation at Moderate Frequenci		ا معد ور
D-C Plate Voltage		volts volts
D. C. Crid Voltage		ohms
D-C Grid Voltage♥		ohms
D-C Plate Current		na.
D-C Grid Current (Approx.)		na.
Driving Power (Approx.)		watt
Power Output (Approx.)		vatts
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O, □, ●, ♠, ⊙: See next page.	TENTATIVE	





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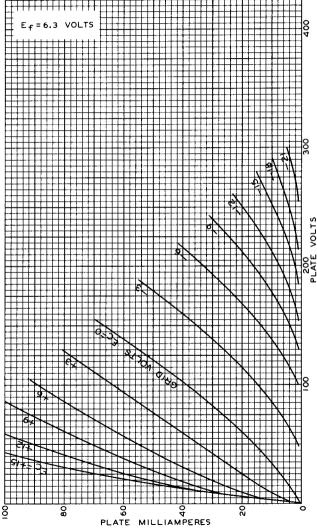
(continued from preceding page)

- O with no external shield.
- Fixed-bias operation is not recommended. Under maximum rated conditions, the d-c resistance in the grid circuit should not exceed 0.5 megohm.
- Approximately 45 milliwatts can be obtained when the 6F4 is used at 1200 megacycles as an oscillator with 100 volts on plate, maximum rated plate dissipation, and grid resistor of 2000 ohms.
- Obtained from fixed supply, or by cathode resistor (550), grid resistor (2000), or partial self-bias methods.
- O Subject to wide variations as explained under TUBE RATINGS in General Section.

The socket for the 6F4 should be electrically and mechanically compact, and be made with an insulating material having a loss factor not exceeding 0.035 to permit operation of the 6F4 at high frequencies. For most satisfactory performance of the 6F4, it is essential that the inductance of connections between tube and circuit be kept as low as possible.



AVERAGE PLATE CHARACTERISTICS



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RCA VICTOR DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6567





TYPICAL CHARACTERISTICS

