

R-F POWER AMPLIFIER PENTODE

Heater	Coated Unipotential	Cathode			
Voltage	6.3	a-c or d-c voits			
Current	0.7	amp.			
Transconductance	for				
plate current o	f 31 ma. 2500	µmhos			
Direct Interelectrode Capacitances:®					
Grid to Plate	0.26	µµf			
Input	6.5	μμf			
Output	13.5	µµf			
Maximum Overall L	ength	3-1/4"			
Maximum Seated He	ight	2-11/16"			
Maximum Diameter	-	1-5/16"			
Bu1b		Metal Shell, MT-8			
Base	0 0	Small Wafer Octal 7-Pin			
Pin 1 - Shell	<u> </u>	Pin 5-Grid			
Pin 2-Heater	97=11	Pin 7-Heater			
Pin 3-Plate	まずる	Pin 8 - Cathode,			
Pin 4-Screen		Suppressor			
Mounting Position		Any			
BOTTOM VIEW (7S)					

Maximum Ratings Are Absolute Values

MAXIMUM RATINGS and TYPICAL OPERATING CONDITIONS

PLATE-MODULATED R-F POWER AMPLIFIER - Class C Telephony					
Carrier conditions per tube for use with a max. modulation factor of 1.0					
D-C Plate Voltage		max.	volts		
D-C Screen Voltage	275	max.	volts		
D-C Grid Voltage	-100	max.	voits		
D-C Plate Current	50	max.	ma.		
D-C Grid Current	5	max.	ma.		
Plate Input	11.5	max.	watts		
Screen Input	2	max.	watts		
Plate Dissipation		max.	watts		
D-C Heater-Cathode Potential	100	max.	volts		
Typical Operation:					
D-C Plate Voltage	275		voits		
D-C Screen Voltage ⁴	∫ 200		volts		
b o der den vortage	7500		ohms		
D-C Grid Voltage ^D	{ −35		volts		
-	12500		ohms		
Peak R-F Grid Voltage	65		volts		
D-C Plate Current	42		ma.		
D-C Screen Current	10		ma.		
D-C Grid Current		approx.			
Driving Power		approx.			
Power Output	ь	approx.	watts		
Obtained by grid resistor or by partial self-bias methods.					
Preferably obtained from a separate source modulated with the plate					

supply, or obtained from the modulated plate—voltage supply through resistor of value snown. With shell connected to cathode.

Indicates a change.



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	preceding page)	- ,			
R-F POWER AMPLIFIER & OSCI					
Key-down conditions pet tube without modulation#					
D-C Plate Voltage	350	max. voits			
D-C Screen Voltage		max. volts			
D-C Grid Voltage		max. volts			
D-C Plate Current		max. ma.			
D-C Grid Current		max. ma.			
Plate Input		max. watts			
Screen Input		max. watts			
Plate Dissipation		max. watts			
D-C Heater-Cathode Potential	100	max. voits			
Typical Operation:					
D-C Plate Voltage	350	volts			
D C C V-1+	∫ 200	volts			
D-C Screen Voltage	15000	ohms .			
D. C. C., i.d. Vo.140	{ -35	volts			
D—C Grid Voltage▲	[10000	ohms			
Peak R-F Grid Voltage	. 70	volts			
D-C Plate Current	50	ma.			
D-C Screen Current	10	ma.			
D-C Grid Current		approx.ma.			
Driving Power		approx.watt			
Power Output	9	approx.watts			

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

 Obtained by grid resistor or other self-or fixed-bias method.

 Obtained from a separate source, or from the plate-voltage supply with a voltage divider, or through a series resistor of the value shown.

Data on operating frequencies for the 1613 are given on the sheet TRANS. TUBE RATINGS vs FREQUENCY.

Indicates a change.

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