

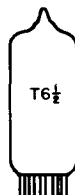
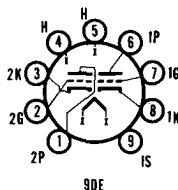
RF AMPLIFIER or OSCILLATOR and MIXER

6DT8

12DT8

High Mu Twin Triode

Construction Miniature T-6½
Base Button 9 Pin, E9-1
Basing⁽¹⁾ 9DE
Outline 6-2
Maximum Diameter 0.875 In.
Maximum Seated Height 1.937 In.
Maximum Overall Height 2.187 In.



ELECTRICAL DATA HEATER OPERATION

	12DT8	6DT8
Heater Voltage.....	12.6	6.3 Volts
Heater Current	150	300 Ma
Maximum Heater-Cathode Voltage		
Heater Negative with Respect to Cathode		
Total DC and Peak.....		200 Volts
Heater Positive with Respect to Cathode		
DC		100 Volts
Total DC and Peak.....		200 Volts

DIRECT INTERELECTRODE CAPACITANCES (Shielded)

	Section No. 1 ⁽¹⁾	Section No. 2
Grid to Plate	1.6	1.6 Pf
Input: g to (k + h + IS)	2.7	2.7 Pf
Output: p to (k + h + IS)	1.6	1.6 Pf
Heater to Cathode	3.0	3.0 Pf

Grounded Grid Operation

Input: k to (g + h + IS)	5.3 Pf
Output: p to (g + h + IS)	2.8 Pf

RATINGS (Design Center Rating System)

Plate Voltage (Max.)	300 Volts
Plate Dissipation (Max.)	2.5 Watts
Negative Grid Voltage (Max.)	50 Volts
Grid Circuit Resistance	
Fixed Bias (Max.)	0.25 Megohm
Self Bias (Max.)	1.0 Megohms

CHARACTERISTICS AND TYPICAL OPERATION

Class A1 Amplifier—Each Section

Plate Voltage	100	250 Volts
Cathode Bias Resistor	270	200 Ohms
Plate Current	3.7	10.0 Ma
Transconductance	4000	5500 μ mhos
Amplification Factor	60	60
Plate Resistance.....	15,000	10,900 Ohms
Ec for Ib = 10 μ a (Approx.).....	-5	-12 Volts

NOTES:

- (1) Section No. 1 connects to Pins 6, 7, and 8.
- (2) An internal shield is connected to Pin No. 9 to provide isolation between the two sections.

Color Television Type

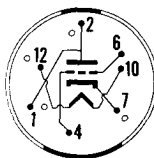
UHF OSCILLATOR

6DV4

2DV4

Medium Mu Triode

Construction Nuvistor, Metal
Base... Ceramic Wafer, Twelvar 7 Pin, E7-83
Basing 12EA
Outline
Maximum Diameter 0.440 In.
Maximum Seated Height 0.625 In.
Maximum Overall Height 0.800 In.



12EA