

# 5767

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# 6481

Up to 3.3 Gc ◀  
 Low Internal Lead Inductance ◀  
 Folded Discs ◀

Litton Planar Triode Types 5767 and 6481 are intended primarily for use in microwave circuits as CW oscillators at frequencies up to 3.3 Gc. These planar-electrode disc-seal triodes may be used as integral parts of a tuned cavity. Their low internal lead inductance make these tubes well adapted to lumped constant circuits. The mechanical configuration was designed for use in butterfly type circuits, since it is easily clamped into the circuit by beryllium straps. The 5767 has a slightly lower anode-to-cathode capacitance which makes it perform well in broadband tunable oscillator circuits.

### ABSOLUTE MAXIMUM PARAMETERS PER PARA. 6.5 MIL-E-1D

Heater Voltage (AC or DC).....	7.0 V
Heater Current .....	0.45 A
Anode Voltage.....	350 Vdc
Anode Dissipation.....	5.0 W
Seal Temperature.....	200° C
Operating Frequency.....	3.3 Gc

### DIRECT INTERELECTRODE CAPACITANCES

	5767	6481
Grid Anode.....	1.45	1.47 pf
Grid Cathode .....	1.30	1.27 pf
Anode Cathode.....	0.015	0.023 pf

### TUBE CHARACTERISTICS (Typical)

Transconductance.....	4500 umhos
Amplification Factor.....	25
Grid Voltage for $I_b = 10 \mu\text{Adc}$ .....	-15 V

Above parameters measured at  $E_f=6.3 \text{ V}$ ,  $E_b=180 \text{ V}$ ,  $R_k=400 \text{ ohms}$ , and  $I_b=12.0 \text{ mAdc}$ .

### OPERATING CHARACTERISTICS (Typical)

- (1) UHF Oscillator CW<sup>1</sup>

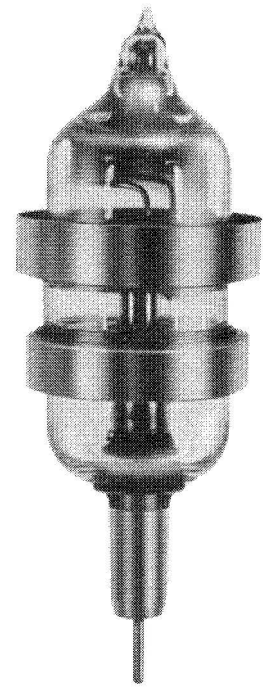
Anode Voltage.....	200 Vdc
Anode Current.....	35 mAdc
Frequency.....	1.0 Gc
Power Output.....	2.0 W
Heater Voltage.....	6.3 Vac
- (2) UHF Oscillator CW<sup>1</sup>

Anode Voltage.....	200 Vdc
Anode Current.....	25 mAdc
Frequency.....	3.3 Gc
Power Output.....	400 mw
Heater Voltage.....	6.3 Vac
- (3) UHF Oscillator CW Tunable

Anode Voltage.....	325 Vdc
Anode Current.....	40 ma
Frequency.....	200-900 Mc
Power Output.....	300 mw
Heater Voltage.....	6.3 Vac

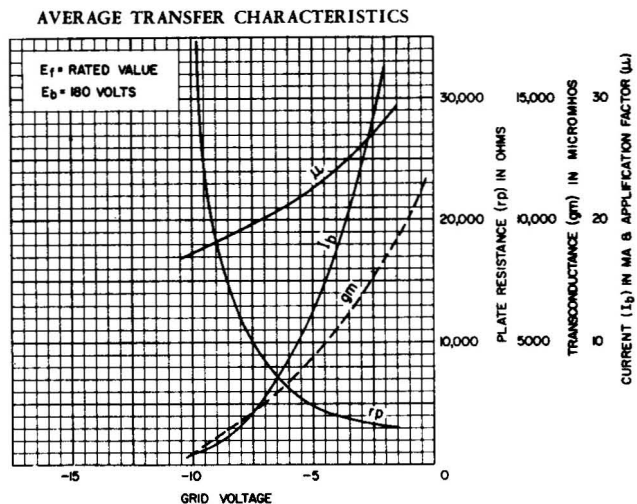
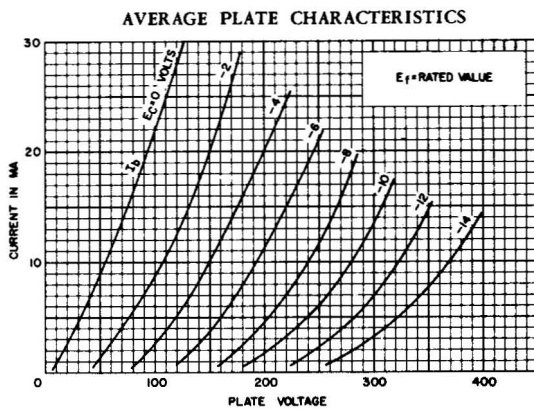
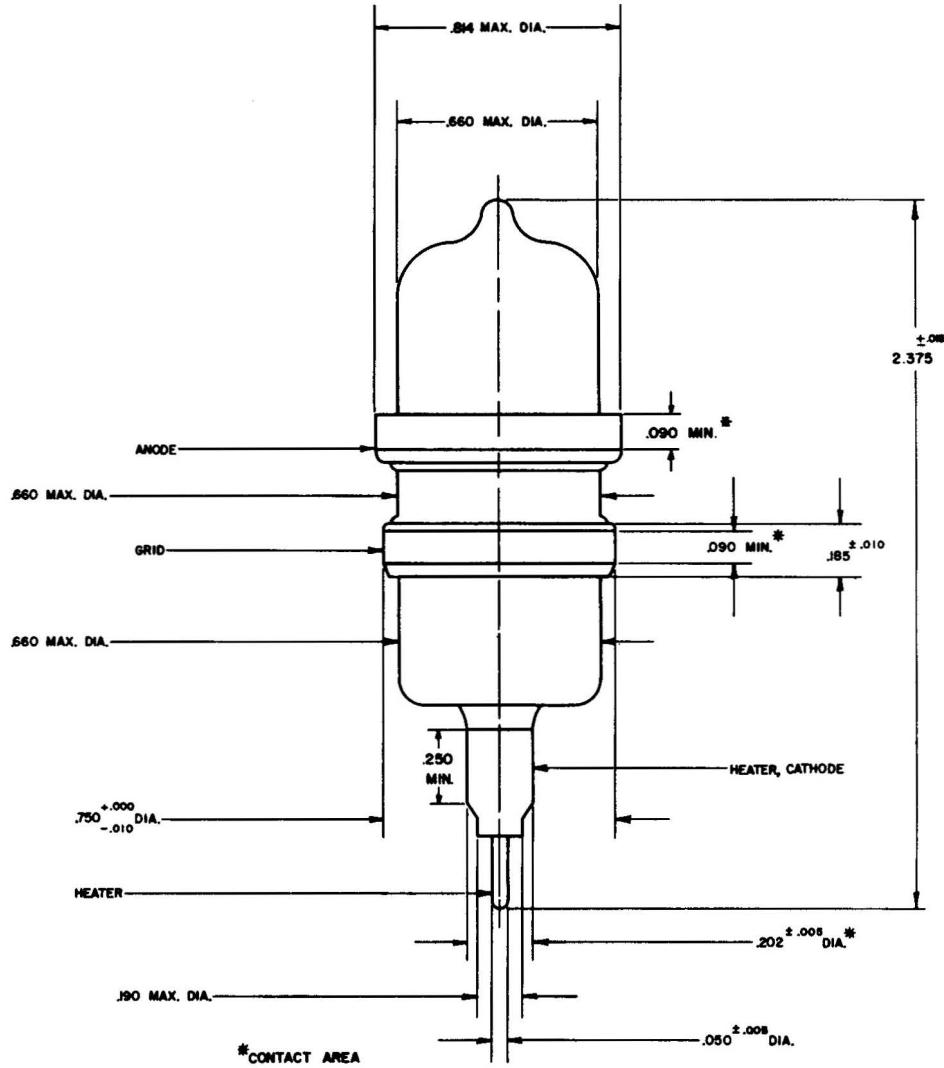
**NOTE:**

1. In a tunable cavity designed for the indicated frequency ranges.



PLANAR TUBE

# 5767 6481



LITTON INDUSTRIES • ELECTRON TUBE DIVISION • SAN CARLOS, CALIFORNIA

