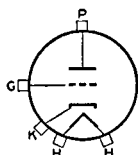


MEDIUM-MU TRIODE

5675



Pencil-type tube used in cathode-drive circuits as rf power amplifier and oscillator. Designed for use in coaxial-cylinder-type circuits, it may also be used in parallel-line or lumped cir-

cuits. May be used with full input up to 3000 Mc. Class C maximum CCS plate dissipation, 9 watts. The tube may be mounted in any position. *OUTLINE 65, Outlines Section.*

HEATER VOLTAGE (AC/DC)	6.3 $\pm$ 10%	volts
HEATER CURRENT	0.135	ampere
TRANSCONDUCTANCE*	6200	μ mhos
AMPLIFICATION FACTOR*	20	
PLATE RESISTANCE (Approx.)*	3225	ohms
DIRECT INTERELECTRODE CAPACITANCES:		
Grid to plate	1.4	μ mf
Grid to cathode and heater	2.3	μ mf
Plate to cathode and heater	0.09 max	μ mf

* Plate-supply volts, 135; cathode resistor, 68 ohms; plate milliamperes, 24.

RF POWER AMPLIFIER AND OSCILLATOR—Class C

Maximum CCS Ratings:

DC PLATE VOLTAGE	300 max	volts
DC GRID VOLTAGE	-90 max	volts
DC PLATE CURRENT	30 max	ma
DC GRID CURRENT	8 max	ma
PLATE INPUT	9 max	watts
PLATE DISSIPATION*	9 max	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	90 max	volts
Heater positive with respect to cathode	90 max	volts
PLATE-SEAL TEMPERATURE	175 max	$^{\circ}$ C

Typical Operation as Cathode-Drive Oscillator at 1700 Mc:*

DC Plate Voltage	120	volts
DC Grid Voltage	-8	volts
From a grid resistor of	2000	ohms
DC Plate Current	25	ma
DC Grid Current (Approx.)	4	ma
Power Output (Approx.)	475	mw

- In applications where the plate dissipation exceeds 2.5 watts, it is important that a large area of contact be provided between the plate cylinder and its lead connector to provide adequate heat conduction.
- At 3000 Mc, and with full ratings, a useful output of approximately 50 milliwatts may be obtained.

AVERAGE CHARACTERISTICS

