ELECTRODE

TERMINATIONS

SEE

OUTLINE

DRAWING

TUNG-SOL -

UHF POWER TRIODE PENCIL TYPE

FOR

RF POWER AMPLIFIER, OSCILLATOR

AND FREQUENCY MULTIPLIER APPLICATIONS

PHYSICAL DIMENSIONS SEE OUTLINE DRAWING

IN MOBILE AND AIRCRAFT EQUIPMENT

ANY MOUNTING POSITION

COATED UNIPOTENTIAL CATHODE

THE 5675 IS A COAXIAL METAL-GLASS PENCIL-TYPE MEDIUM MU TRIODE. ITS MAXIMUM PLATE DISSIPATION IS 5 WATTS CCS. THE TUBE MAY BE OPERATED WITH FULL RATINGS UP TO A FRE-QUENCY OF 1,700 MC/S, AND WITH REDUCED RATINGS UP TO 3,000 MC/S.

ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES

WITHOUT EXTERNAL SHIELD

GRID TO PLATE 1,4 ρf GRID TO CATHODE 2.4 рf PLATE TO CATHODE MAX. 0.09 ρf

HEATER CHARACTERISTICS AND RATINGS ABSOLUTE MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	135	mA
LIMITS OF APPLIED VOLTAGE - AC OR DC MAXIMUM HEATER-CATHODE VOLTAGE:		6,3 ± 0,6	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE HEATER POSITIVE WITH RESPECT TO CATHODE		90 90	VOLTS
MINIMUM PREHEAT TIME		60	SEC.

AVERAGE STATIC CHARACTERISTICS

PLATE VOLTAGE	135	VOLTS
CATHODE RESISTOR	68	OHMS
PLATE CURRENT	24	mA
TRANSCONDUCTANCE	6,200	₩ HOS
AMPLIFICATION FACTOR	20	F

CONTINUED ON FOLLOWING PAGE

TUNS-SOL -

CONTINUED FROM PRECEDING PAGE

CLASS C TELEGRAPHY - RF POWER AMPLIFIER AND OSCILLATOR

MAXIMUM RATINGS - ABSOLUTE MAXIMUM SYSTEM - SEE EIA STANDARD RS-239

CONTINUOUS COMMERCIAL SERVICE

DC PLATE VOLTAGE	300	VOLTS
DC GRID VOLTAGE	-9 0	VOLTS
DC PLATE CURRENT	31	mA
DC GRID CURRENT	8	m A
PLATE INPUT	5	WATTS
PLATE DISSIPATION - SEE NOTE	5	WATTS
PLATE SEAL TEMPERATURE	175	• C
FREQUENCY FOR OPERATION AT FULL RATINGS	1,700	MC/S
ALTITUDE FOR OPERATION AT FULL RATINGS	60,000	FEET
GRID CIRCUIT RESISTANCE	0.1	MEGOHMS

NOTE: IF THE PLATE DISSIPATION EXCEEDS 2.5 WATTS, ADEQUATE COOLING MUST BE PROVIDED IN ORDER TO STAY WITHIN THE TEMPERATURE RATING.

TYPICAL OPERATION-OSCILLATOR IN CATHODE-DRIVE CIRCUIT

RF AMPLIFIER WITH CATHODE DRIVE

CONTINUOUS COMMERCIAL SERVICE			
FREQUENCY	1,700	3,000	MC/S
DC PLATE-TC-GRID VOLTAGE	128	151.5	VOLTS
DC CATHODE-TO-GRID VOLTAGE	8	1.5	VOLTS
FROM A GRID RESISTOR	2,000	5,000	OHMS
DC PLATE CURRENT	25	29	mA
DC GRID CURRENT - APPROX.	4	0.3	mΑ
USEFUL POWER OUTPUT - APPROX.	475	50	mW

SPECIAL TESTS AND PERFORMANCE DATA

CONTROLLED ON A SAMPLING BASIS

VIBRATION TEST GLASS SEAL FRACTURE TESTS 500 HOUR LIFE TEST IN OSCILLATOR

OUTLINE DRAWING ± .005 DIA. .187 MAX. -.250 ± .003 DIA. .250 MAX. CYLINDER PLATE MIN. .860 ± .025 1,981 MAX. .687 MAX. DIA. GRID FLANGE .032 1.640 .330 + .060 .793 ± .003 - .035 MAX. ± .025 .580 CYLINDER CATHODE .220 .025 ± ,020 MĄX. HEATER 2 LEADS .040 MAX. .080 MAX. .020 UNTINNED .115 ± .002 ± .040 DIA.

ALL DIMENSIONS IN INCHES



