

NEW NATIONAL UNION ELECTRON TUBE DATA

N.U. 6195

RUGGEDIZED R.F. POWER OUTPUT BEAM PENTODE

APPLICATION:

The NU-6195 is a T-3 subminiature beam pentode designed for rugged applications such as encountered in the military service. It is designed for use in Class A & Class C applications and is tested as a frequency doubler at an output frequency of 400 mc. It has an oxide coated filamentary cathode which is center-tapped permitting operation at either 1.25 volts and 220 ma or 2.5 volts and 110 ma. The tube leads may either be soldered into a circuit or cut for use in a Cinch socket #54A-13686.

RATINGS:

Filament Voltage $\pm 10\%$	1.25/2.5 volts d.c.
Maximum Plate Voltage	180 volts
Maximum Screen Voltage	150 volts
Maximum Grid Voltage	-80 volts
Maximum Plate Dissipation	2.5 watts
Maximum Screen Dissipation	0.6 watts
Maximum Cathode Current	20 ma
Maximum Altitude	60,000 feet
Maximum Impact	500 g
Maximum Temperature	200° C

INTERELECTRODE CAPACITIES:

	SHIELDED
Grid to Plate	0.045 μf
Input	2.4 μf
Output	1.3 μf

TYPICAL OPERATING CONDITIONS: (Class A Amplifier)

Filament Voltage	1.25/2.5 volts
Filament Current	220/110 ma
Plate Voltage	125 volts
Screen Voltage	125 volts
Grid Voltage	-7.5 volts
Plate Current	9.0 ma
Screen Current	1.5 ma
Transconductance	2100 μmhos
Plate Resistance	120,000 ohms

1.0 watt output at 10% total harmonic distortion is obtained when $E_b = 180$ V, $E_{c2} = 135$ V and $E_{c1} = -8$ V.

DOUBLER OPERATION AT 400 MC OUTPUT FREQUENCY:

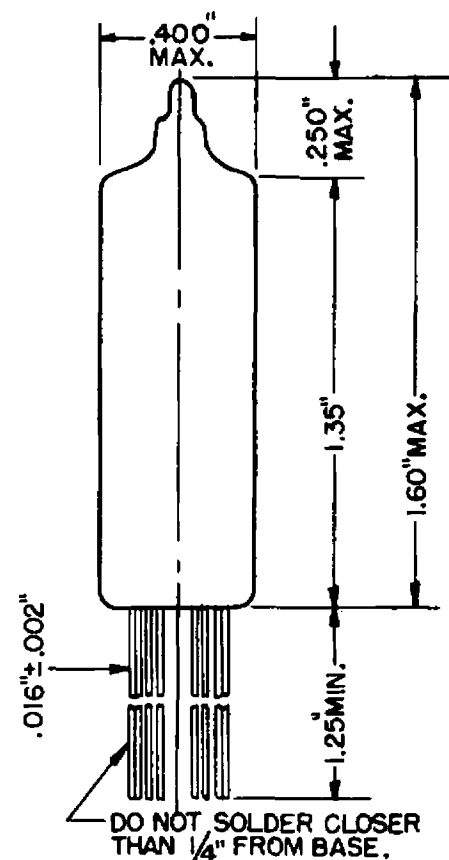
Filament Voltage	1.25/2.5 volts
Filament Current	220/110 ma
Plate Voltage	125 volts
Screen Voltage	125 volts
Grid Resistance	220,000 ohms
Plate Current	8.0 ma
Screen Current	2.0 ma
Power Output	200 mw

PHYSICAL SPECIFICATIONS

Style..... Sub Miniature
Bulb..... T-3
Base..... K8-1 Submin. Button 8- Pin
Mounting Position ... Any

BASE PIN CONNECTIONS

Pin 1 - Fil -
Pin 2 - NC
Pin 3 - P
Pin 4 - NC
Pin 5 - Fil CT and G_3
Pin 6 - G_2
Pin 7 - Fil +
Pin 8 - G_1
RMA Basing - 6CL-0-0



LEADS MAY BE CUT TO .200\" FROM
USE IN CINCH SOCKET #54A-13686

MAY 1952

Research Division

ORANGE NATIONAL UNION RADIO CORPORATION NEW JERSEY