

NATIONAL UNION ELECTRON TUBE

NEW 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 ±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 μ f
Input	2.4 μ f
Output	1.3 μ f

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	μ hos
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

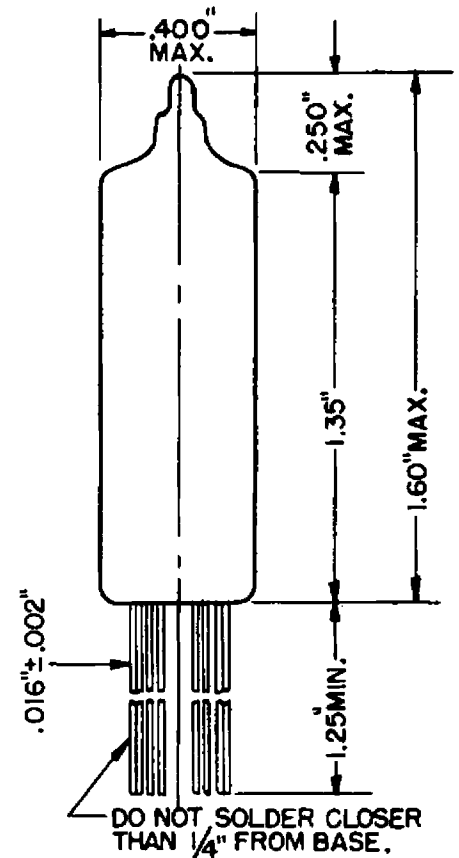
MAY 1952

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 G₃
 Pin 6 - G₂
 Pin 7 - Fil+
 Pin 8 - G₁
 RMA Basing - 6CL-0-0



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

Research Division