

NEW DATA

N.U. - 6AZ6

NU-6AZ6

RUGGEDIZED SUBMINIATURE UHF TWIN DIODE

APPLICATION:

The **NU-6AZ6** is a T-3 subminiature twin diode designed for rugged applications such as encountered in military service. It is a high perveance tube suitable for rectifier, clipper, detector and pulse service. An internal shield resulting in very low capacities between sections. The resonant frequency is approximately 1125 megacycles. It has an oxide coated unipotential cathode. The heater power consumption is less than 1/2 watt per section. The tube leads may either be soldered into a circuit or cut for socketing.

RATINGS:

Heater Voltage (AD or DC) $\pm 10\%$	6.3	volts
Maximum Heater Cathode Voltage	300	volts
Maximum Peak Inverse Voltage	450	volts
Maximum RMS Plate Voltage	200	volts
Maximum Peak Plate Current	50	ma
Maximum DC Output Current (F.W.)	20	ma
DC voltage drop at 8 Ma: per plate	3.5	volts

INTERELECTRODE CAPACITANCES:

Plate to Cathode, Heater, both Shields	2.5	μmf *
Cathode to Plate, Heater, both Shields	3.0	μmf *
Plate 1 to Plate 2 (with Ext. Shield)	0.01	μmf *
Plate 1 to Plate 2 (without Ext. Shield)	0.1	μmf *

* With close fitting shield

TYPICAL OPERATING CONDITIONS:

Heater Voltage	6.3	6.3	volts
Heater Current	150	150	ma
RMS Plate Voltage	150	115	volts
Plate Current (Full Wave) θ	16	12	ma
DC Output Voltage θ	180	136	volts

θ $R_L = 11,000$ ohms, $C_L = 8\mu\text{f}$, $L = 15$ mh

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

from RTMA release #970, May 4, 1951

(OVER)

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Research Division

ORANGE **NATIONAL UNION RADIO CORPORATION** **NEW JERSEY**

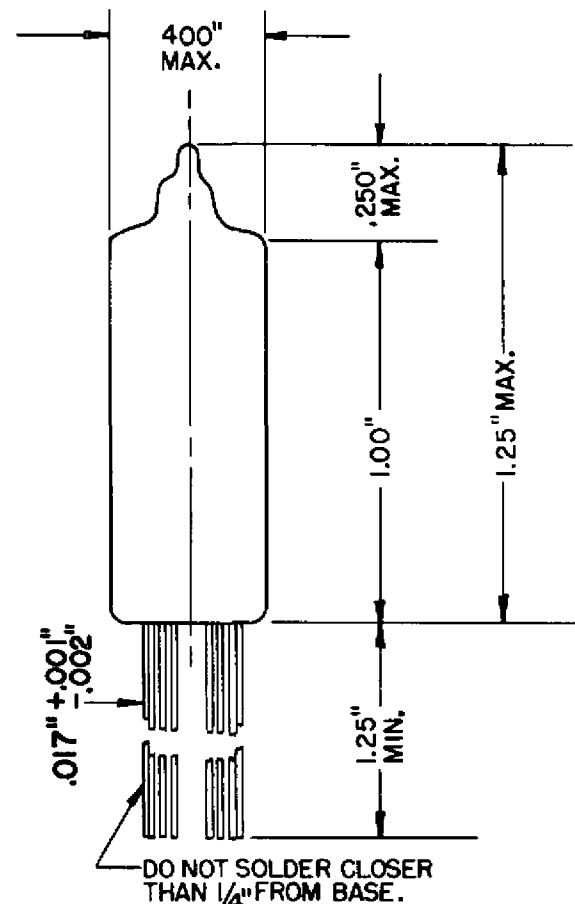
PHYSICAL SPECIFICATIONS

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

BASE PIN CONNECTIONS

Pin 1 -	N.C.
Pin 2 -	P ₁
Pin 3 -	H
Pin 4 -	K ₁
Pin 5 -	K ₂
Pin 6 -	H
Pin 7 -	P ₂
Pin 8 -	Shield

RMS Basing - 8 EH



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RESEARCH DIVISION

NU-6AZ6

