

NEW **NATIONAL UNION ELECTRON TUBE** DATA

N.U. 6193

6193

RUGGEDIZED SUBMINIATURE TWIN-TRIODE

APPLICATION:

The NU-6193 is a T-3 subminiature twin-triode designed for reliable as well as rugged applications as encountered in the military service. It is primarily intended for use as a mixer, amplifier, multivibrator. This is the equivalent to a 7F8 except for dissipation limits.

RATINGS:

Heater Voltage (AC or DC) $\pm 10\%$	6.3 volts
Maximum Plate Voltage	250 volts
Maximum Heater to Cathode Voltage	100 volts
Maximum Plate Dissipation (per section)	2.0 watts
Maximum Cathode Current (per section)	15 ma
Maximum impact	500 g
Maximum vibration output •	30 mv
Maximum bulb temperature	200° C

INTERELECTRODE CAPACITANCES:

	SHIELDED	UNSHIELDED
Grid to Plate	1.46 μf	1.52 μf
Input	2.75 μf	2.60 μf
Output	2.20 μf	1.07 μf

TYPICAL CONDITION OF OPERATION: ■

Heater Voltage	6.3		volts
Heater Current	300		ma
Plate Voltage	180	120	90 volts
Grid Voltage	-1	-.75	-.50 volts
Plate Current	11.5	6.0	4.5 ma
Grid Voltage for 10 $\mu\text{amp.}$			
Plate Current (approx.)	-7	--	-- volts
Plate Resistance	8500	8300	9000 ohms
Transconductance	6500	6000	5800 μhos
Amplification Factor	55	50	50

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

• Measured across a 10,000 ohms load resistor when vibrated at 25 cps at .080" excursion.

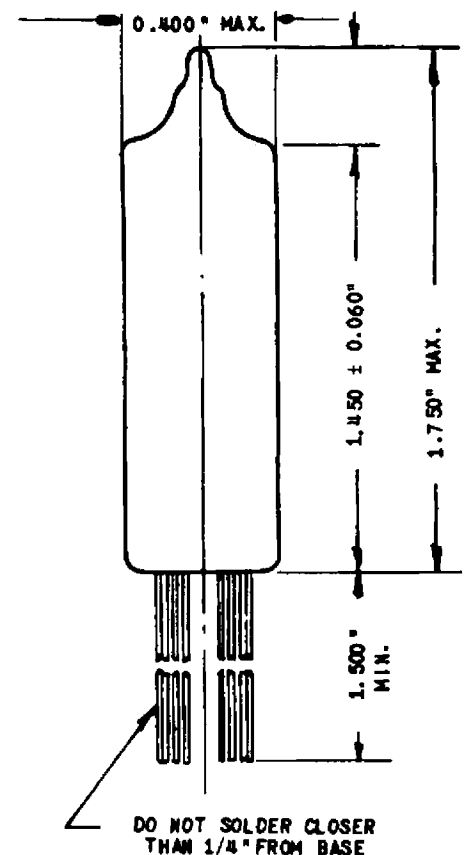
■ All values are for a single section except for Heater Ratings.

PHYSICAL SPECIFICATIONS

Style.....	Sub Miniature
Bulb.....	T-3-3
Mounting Position.....	Any
Leads.....	Flexible
Basing Diagram.....	8D6
Base.....	K8-1

BASE PIN CONNECTIONS

PIN 1	Plate
PIN 2	Grid
PIN 3	Heater
PIN 4	Cathode
PIN 5	Cathode
PIN 6	Heater
PIN 7	Plate
PIN 8	Grid



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Research Division

ORANGE **NATIONAL UNION RADIO CORPORATION** NEW JERSEY

NATIONAL UNION RADIO CORPORATION

RESEARCH DIVISION

NU-6193 TWIN TRIODE

