

# NEW NATIONAL UNION ELECTRON TUBE DATA

## N.U. 3C27B

### MICRO-WAVE COAXIAL TRIODE

from RMA release # 605, Sept. 12, 1947

The National Union 3C27B is a coaxial triode designed especially for micro-wave pulsed oscillator service. Conservatively rated, one tube employed in suitable resonant cavity circuits will deliver 10 kw. peak radio frequency power at 1150 megacycles.

#### MAXIMUM RATINGS:-

Heater Voltage	6.3 ± 5%	Volts max.
Grid Voltage	-1000	Volts max.
Anode Voltage (Instantaneous)	5000	Volts max.
Anode Dissipation	150	Watts max.
Grid Dissipation		
Operating Temperature		
Anode and Grid Seals	140°	C max.
Cathode Seal	180°	C max.

#### ELECTRICAL RATINGS:-

Cathode: Oxide Coated Unipotential		
Voltage	6.3	Volts
Current	2.5	Amps.
Amplification Factor	23	
Transconductance (Eb = 700v, Ip = 70 ma)	7500	umhos

#### DIRECT INTERELECTRODE CAPACITANCES:-

Grid to Plate	3.5	uuf
Grid to Cathode	4.0	uuf
Cathode to Plate	1.45	uuf

#### MECHANICAL RATINGS:- (See Reverse)

##### MAXIMUM OVERALL DIMENSIONS

Length	3 17/64	inches
Diameter	1 1/2	inches
Mounting Position	Any	
Radiators - Integral - See outline drawing		
Type of Cooling	Air Blast	

#### TYPICAL OPERATING CONDITIONS:-

##### Class C Oscillator, Plate Pulsed

Frequency	1140	megacycles
Anode Voltage (Instantaneous)	5000	Volts
Duty Cycle	.005	%
Peak Power Output	8	Kw.

##### Cooling by Air Blast (Volumes)

Plate Radiator	4	cu. ft/min.
Grid Radiator	1	cu. ft/min.

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See Over

Prepared by

Commercial Engineering Division

NEWARK
NATIONAL UNION RADIO CORPORATION
NEW JERSEY

