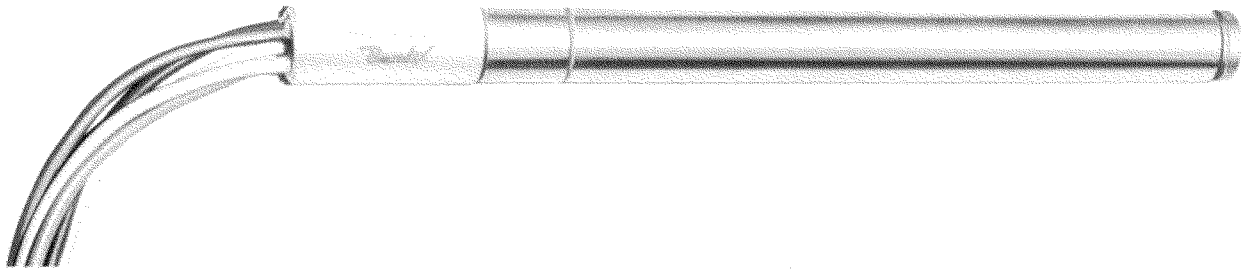


Backward-Wave Oscillator

Tentative Data

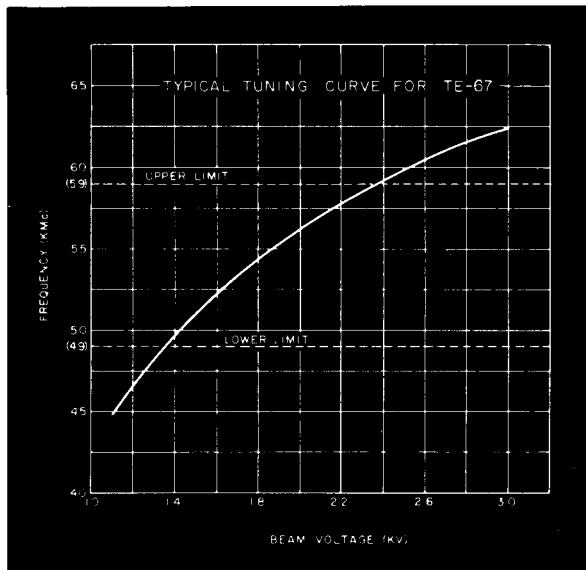


ELECTRICAL DATA

Frequency Range.....	49 KMC - 59 KMC
Anode Voltage.....	1000 - 3000 volts
Power Output.....	5 mw average power
Beam Current.....	5 ma
Magnetic Field.....	1300 gauss (minimum)
Heater Voltage.....	6.3 ± 10%

DESCRIPTION

The Bendix Red Bank Backward Wave Oscillator Type TWO-67 has many applications where low power, voltage tuned millimeter wavelength radio frequency energy is required. These tubes require parts machined to very precise dimensions in such difficult to work materials as steatite, molybdenum and kovar. Hence, the most advanced techniques of engraving, hubbing, and precision grinding are employed in their fabrication. This tube, a type of Traveling Wave Tube, has application in advanced types of multi-channel telephone and television systems using circular waveguide for transmission, high definition short range radar, highly directive communications, microwave spectroscopy, and as signal sources in the millimeter wavelength region.



Typical Tuning Curve

MECHANICAL DATA

Output Flange.....	Special adapter to RG-98/U
Maximum Diameter.....	.625"
Length.....	9"
Lead Wire Length.....	7½"
Mounting Position.....	Any
Weight (tube only, without magnet).....	5 oz.

Magnets available

THE *Bendix* CORPORATION

Red Bank DIVISION, EATONTOWN, NEW JERSEY