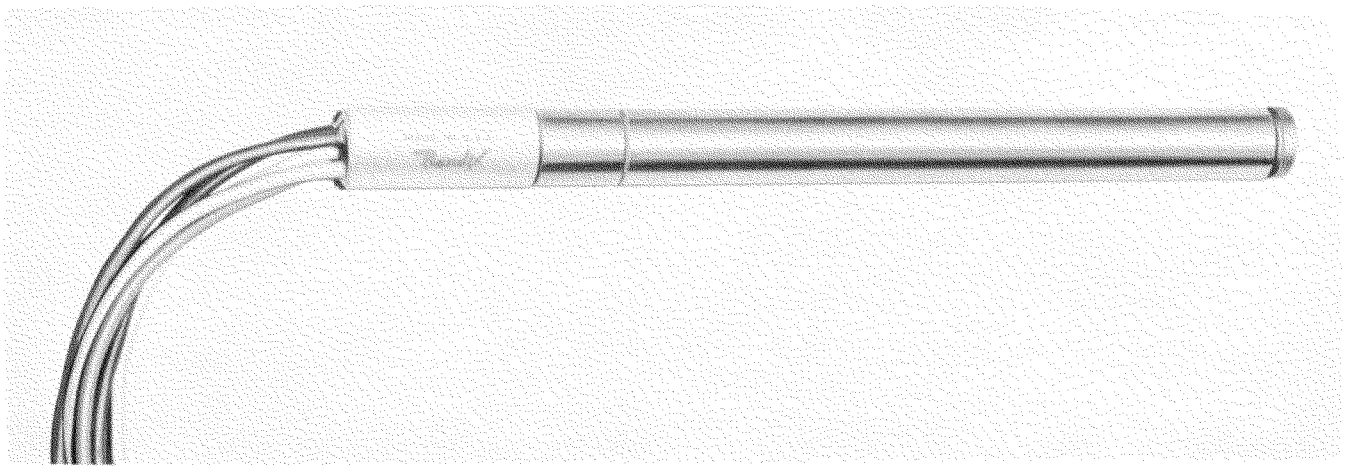
Backward-Wave Oscillator

Tentative Data



ELECTRICAL DATA

Frequency Range	61 KMC - 71 KMC
Anode Voltage	1000 - 2500 volts
Power Output	2 mw average power
Beam Current	8 ma
*Magnetic Field	2000 gauss (minimum)
Heater Voltage	6.3 ± 10%
*Power Input	15 watts (maximum)

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

DESCRIPTION

The Bendix Red Bank Backward Wave Oscillator Type TWO-66 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.

THE Bendix CORPORATION
Red Bank DIVISION, EATONTOWN, NEW JERSEY

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