

## 5J29 – Magnetron, Split Anode



External magnet, split-anode, glass body CW magnetron; 350 to 770MHz; 75 to 150W out. Liquid cooled through the anode tubular pins and the internal loop, part of the tuning line resonator. Pure tungsten filamentary cathode.

450mA max at 2500V, 1500 gauss flux density. 2.2 Volts at 35 Amps filament.

Used in the AN/APT-4 jammer. 'Confidential' etched on the glass.

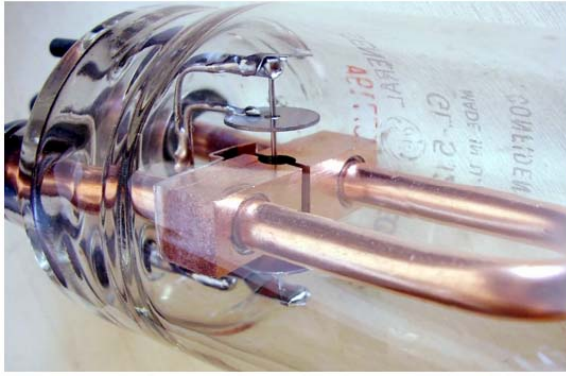
5J29 was the registered code for the General Electric developmental type ZP579. This magnetron was intended to cover the higher frequencies of German radars during WWII around some 600 MHz, as the Würzburg.

Tuning was accomplished by a movable short-circuit along the external portion of resonating line. 5J29 was normally operated in the  $\lambda/2$  mode.

GE and Federal (ITT) known manufacturers.

Data given in the [RMA 462](#) record. See also [Very High Frequency Techniques, Chapt. 23.](#)

More information on magnetrons can be found in the article [‘Magnetron Tubes’](#) edited by Emilio Ciardiello.



- Click on the above images to enlarge.