

## GEC - Experimental Magnetron #2



The GEC experimental split-anode magnetron No. 2 is quite small. It is about 11 cm high and the glass bulb diameter measures about 23 mm. 4-pin midget base. The code 552 is punched on a small tsg inside. Anodes form a cylinder of approximately 10 mm by 5 mm in diameter. The two cylinder halves are supported by rods that enter from the top of the bulb and end on the top of two molded glass stems anchored near the bottom pinch. The interaction space is delimited by two end plates.

It is difficult to date this sample but the presence of the glass supporting frames suggests a very primitive execution. It would appear that a process for precisely holding the two halves of the anode cylinder in their positions while sealing the glass around the two top contact pins was not yet defined. For this reason the rods supporting the two halves were kept in place during the assembly of the tube by the two molded glass stems. This would lead us to conclude that it is one of the very early samples of split-anode magnetron assembled at GEC. Its construction probably dates back to 1935 or even before. The small size of the bulb, electrodes and connections suggests a msgnetron capable of operating at wavelengths below 30 cm.