

CV56 – S Band Pulse Magnetron



CV56 was derived by the very early unstrapped 8-cavity magnetron NT98, adding strap jumpers to prevent unwanted modes. The strapping developmental work was run at Cambridge by Sayers. The [Q85033](#) is one experimental sample with the same asymmetrical strapping scheme. CV56 was the first strapped magnetron to enter into production around the late 1941. Soon replaced by four frequency variants, including [CV56A](#), [CV56B](#) and [CV56C](#).

80 to 100 kW output pulses, at 15 kV, 15A input pulses, 1550 gauss. About 40% efficiency. Heater 6V, 1.25A start, 4.5 V operating.

It was approved for use in the Type 271Q Naval radar.

References: Callick, Metres to Microwaves, page 68.

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