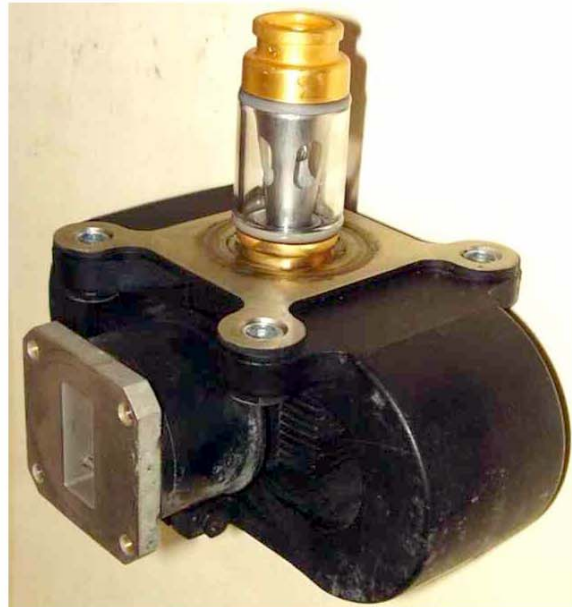


4J52 / 4J52A – X-Band Magnetron



X band, fixed frequency packaged magnetron.

9375 +/-30MHz. 13.5 to 16 kV, 13.5 to 15 amps input pulses. 95 to 110 kW output pulses, with about 50% efficiency.

12.6v at 2.1A heater.

Intended as high-power replacement for the [725A](#), it was thoroughly re-designed. Sintered nickel matrix type cathode, with magnetic 'permendur' toroidal end pieces. 16 resonators, hole and slot type, double ring strapping internal structure. Waveguide flanged output. Integral magnet.

RMA registered to Western Electric in October 1948, but registration reserved since November 1944. The same electrode structure, with a stronger magnet, was retained by Bell Labs. in the higher power variants 4J50 and 4J78.

Data available in the [RMA record 703](#).

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