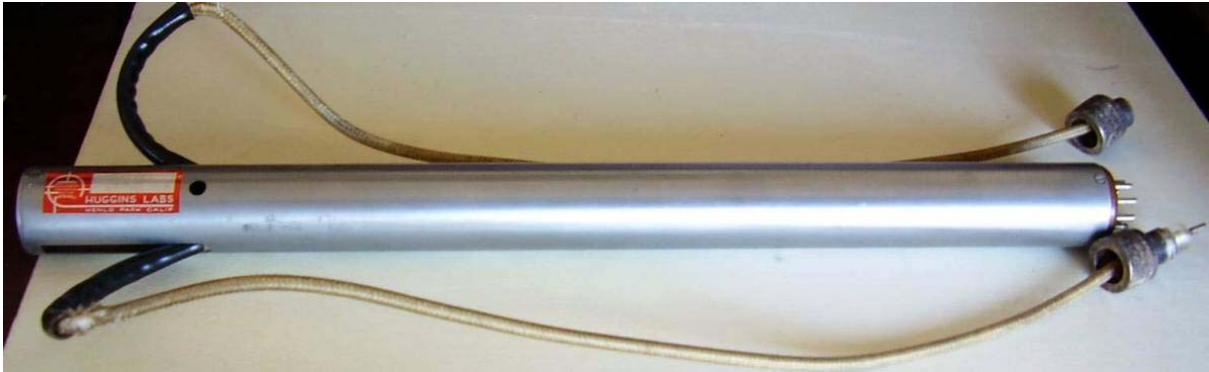


HA2-HP - TWT



TWT amplifier for frequencies from 2 to 4 GHz.

The design of this tube was very innovative, with helical couplers to transfer RF energy to and from the amplifying helix. The tube was developed in 1954 by Huggins Laboratories in cooperation with Stanford University and used by Hewlett-Packard in [490A - 491A S-band amplifiers](#). The replacement tube was sold for \$ 650.00.

Here the article from [Electronics, November 1954](#).