Eight ML-5682's mounted in a Doherty high efficiency linear amplifier designed for 500 kW output.

The ML-5682

A High-Power Coaxial Triode for Full-Power Operation to 88 mc/sec.

The development and commercial production of the ML-5682, a new water- and air-cooled coaxial triode for very high power operation, is an important contribution to all phases of modern electronic development. It is of particular significance in the present effort to provide the highest possible power in international broadcast applications. It finds wide application in high power AM, FM and TV broadcasting, in particle accelerators and in electronic heating. It is the key tube type in the highest power AM transmitters being built today.*

The ML-5682 is an unusually compact, rugged, high-power electron tube ideal for all high-frequency applications. It is an all-ring-seal triode capable of long-life operation at 9kVdc plate voltage and 170 kW plate input at a frequency of 88 mc/s. Operation at 16 kVdc plate voltage and 300 kW plate input is permissible up to 30 mc/s. This tube is ideal for cavity operation and its low impedance makes it advantageous for broad-band service.

*Includes State Department's Voice of America Transmitters.

Outstanding design features include:

High-conductivity, gold plated kovar glass-to-metal seals.

Sturdy electrodes.

Integral anode water jacket.

Quick-change water coupling.

High-conductivity, heavy-wall copper anode designed to dissipate in excess of 100 kw.

Muplti-strand thoriated-tungsten filament cathode completely balanced and stress free throughout tube life.

Grid capable of unusually high heat dissipation contributing to maximum stability of tube performance and circuit operation.

For full technical information on the ML-5682 or other Machlett tube types write to Machlett Laboratories, Inc., Springdale, Connecticut, or contact your nearest Graybar or Westrex office.

Westrex

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MACHLETT

OVER 50 YEARS OF ELECTRON TUBE EXPERIENCE