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NEW INTEGRAL CAVITY KLYSTRONS FROM ITT

A new range of u.h.f. television amplifier klystrons of the four integral-cavity type has been developed by ITT Components Group Europe. Coverage of frequency bands IV and V, from 470 MHz to 854 MHz, is provided by the three new models, which can be used for peak synchronous power outputs of up to 12,5kW.

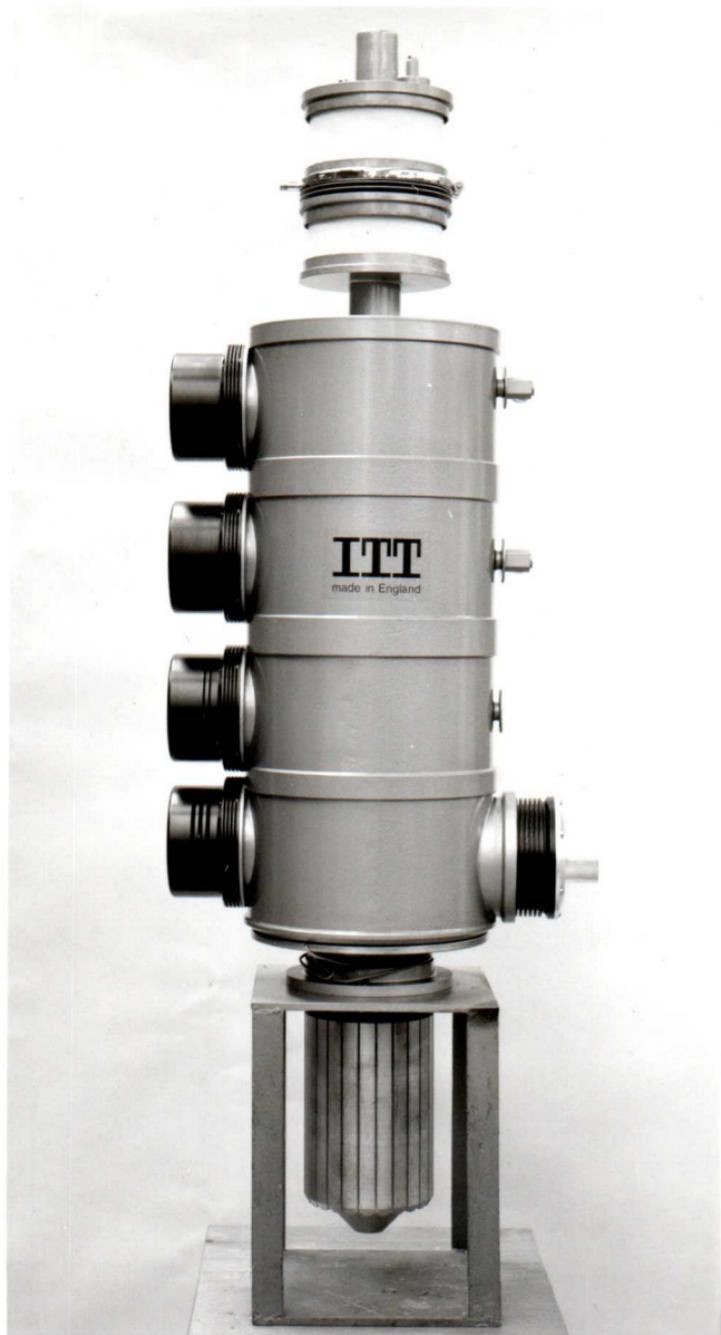
These integral-cavity klystrons (Z153/Z163/Z173) offer considerable advantages over equivalent external-cavity types for which they are direct replacements. All tuning is done within the vacuum envelope thus eliminating periodic maintenance of the cavities, and the replacement of klystrons in their mounts is easier and quicker because of the integral construction.

Little or no adjustment is required prior to operation and if necessary channel changing can be made by cavity tuning only. Also, the input/output coupling and all cavity loadings are fixed, again to minimise tuning.

Levels of radiation from the klystron are significantly reduced with integral-cavity units, thus improving the overall stability of the transmitter in which they are installed. These klystrons have good long-term stability which makes them ideal for unattended, low maintenance operation. Typical turn-on powers of 97% of normal within 2min of h.t. application have been achieved in both vision and sound service.

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