

# Specialized Components

As a result of the very large amount of development work carried out by the Company, many special designs of components are produced. Increasing numbers of these are being made available to other manufacturers and to engineers building equipment for special purposes.

A selection of the items at present available is illustrated on these pages. Further details of a much larger selection are contained in the Specialized Components Catalogue which may be obtained from the Specialized Components Division.

The Marconi range includes:

**Ferrite isolators**

**Ferrite circulators**

**Precision r.f connectors**

**Coaxial loads**

**Waveguide loads**

**Waveguide components**

**Crystal ovens**

**High-stability oscillators**

**Frequency standards**

**Crystal filters**

**Harmonic suppression filters**

**High-speed switches**

**Delay lines**

Typical of the new items, which are available, is the solid-state High-Speed Switch Type F 3070. It is one of a range of switches being developed to meet the need for really reliable high-speed switches/relays in communication stations.

*WG 15 Reversible Circulator Type F 1045-01.*



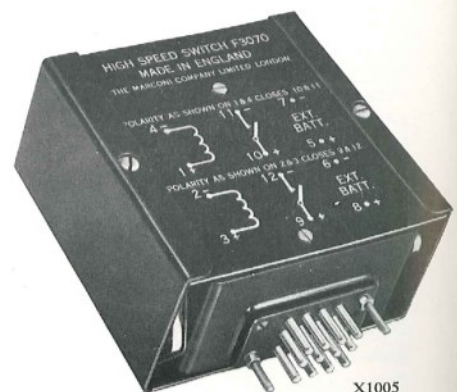
9752

*A 1 Mc/s Crystal Oscillator, Type F 3125.*



9751

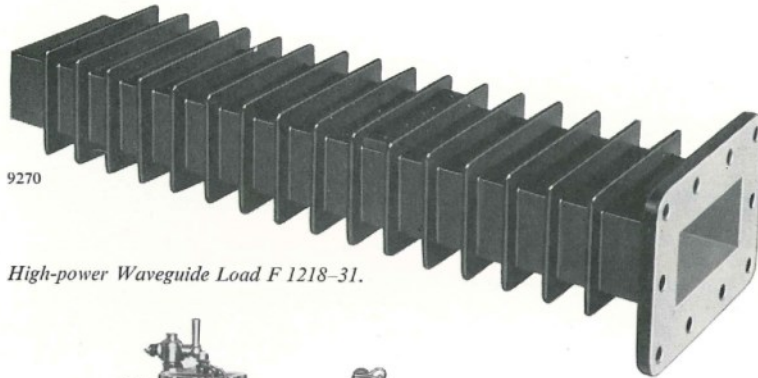
*Solid-state high speed switch, Type F 3070*



X1005

IN THE quartz stability field, Specialized Components Division offer Crystal Ovens and Precision Oscillators within the frequency range 1 kc/s to 120 Mc/s, including 2.5 Mc/s and 5 Mc/s Frequency Standards.

The range of Microwave Components is continually being extended and improved. It includes new high-power isolators, switchable and tunable circulators, waveguide switches, high power air-cooled and water-cooled loads and calorimeters. Typical of new developments is the 4-port stripline circulator Type F 1034 for operation at liquid Nitrogen and liquid Helium temperatures over the frequency range 3600 to 4300 Mc/s. It has been developed for use with low temperature, low noise parametric amplifiers.



9270

High-power Waveguide Load F 1218-31.



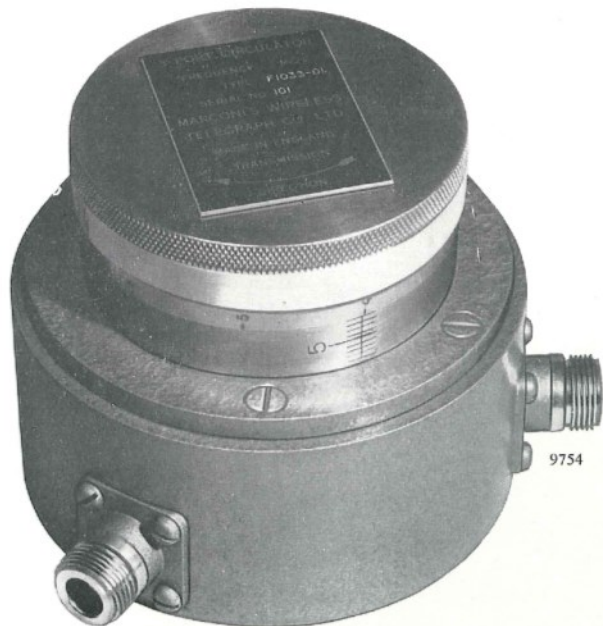
X1006

4-port stripline circulator Type F 1034



9753

WG 10 Water Calorimeter F 1263.



9754

Tunable U.H.F Three-port Circulator F 1033-01.