

Farinon

2 GHz MICROWAVE FOR 120/300/600 CHANNELS

- **LOW PER-CHANNEL COSTS** with Options for up to 120, 300 or 600 Channels.*
- **WORLD-WIDE APPLICATION** in 1700–2300 MHz Bands with Performance Meeting all CCIR Recommendations.
- **ALL SOLID-STATE CIRCUITRY** with Optional Protection Assures Highest Possible System Reliability.
- **TRUE FM** Provides High-Quality, Low-Noise Circuits on Systems with up to 30 or more Hops.
- **EASY TO MAINTAIN** with Built-In Test Facilities, Front-Panel Meters, Plug-In Replacement Modules.

DESCRIPTION

Farinon Type SS2000 Microwave Equipment is intended for applications requiring up to 120, 300 or 600 high-quality voice channels.* With the favorable performance possible from true frequency modulation, voice channels meeting normal telephone standards can be derived over systems with 30 or more hops, extending for 1000 miles or more.

In the design of SS2000, Farinon engineers have used the advantages of solid-state components to achieve high reliability, small size and low power consumption. At the same time, the designers have kept in mind the practical needs of users. SS2000 transmitters and receivers include many features to help restore service quickly in the event of circuit impairment or failure.

SS2000 systems can be arranged for single frequency operation without protection or for operation in a variety of protected modes. Monitored-Hot-Standby Protection is recommended for transmitters wherever single frequency operation is required. Receivers can be arranged for space diversity if desired. SS2000 Systems can also be furnished for frequency-diversity operation where government regulations permit.

* FCC rules for the operational fixed services place a practical limit of 300 voice channels on SS2000 systems providing full rated performance for non-government operation in the available 2 GHz band within the United States. 600-channel systems can be operated in the United States by reducing deviation so that "necessary bandwidth" does not exceed 8000 kHz. Consult factory for details.

The equipment described in this Data Sheet may be optimized for 120, 300, or 600 channel operation. Other Farinon 2 GHz solid-state microwave systems intended for shorter routes with smaller channel capacities are described in other Data Sheets.

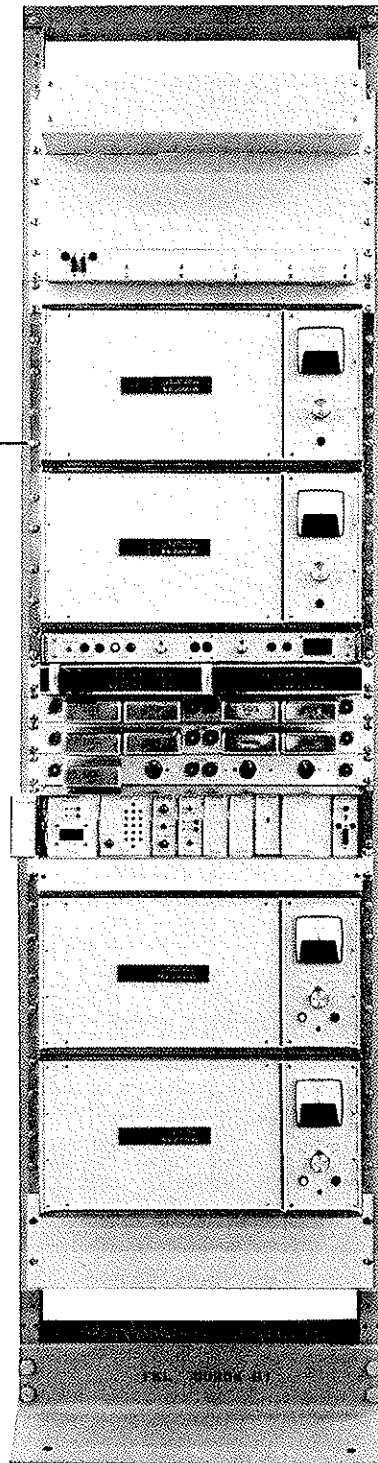


Figure 1. Typical SS2000 protected assembly with two transmitters, two receivers, protection unit, baseband separation filters, jackfield and order wire.