COMMON SYSTEMS
TRANSMISSION MEASURING
SENDING PAD CIRCUIT
FOR VF CHANNEL TESTS AT
"N" OR "O" CARRIER TELEPHONE TERMINAL

CHANGES

D. DESCRIPTION OF CIRCUIT CHANGES

D.1 The title was revised to include reference to "O" Carrier Telephone.

D.2 The figure title was revised to include "O" Carrier Telephone, add reference to "Terminal Bays", and remove reference to "V.F. Channel Bays".

All other headings under Changes, No change.

1. PURPOSE OF CIRCUIT

1.1 This circuit was designed to provide 16 and 32 db 600-ohm sending pads for transmission tests of voice frequency channels at "N" or "O" Carrier Terminals.

1.2 The circuit is intended for offices where either a milliwatt distributing system is available, or where an oscillator such as a 1000-cycle machine is available for transmission tests.

2. WORKING LIMITS

2.1 None.

3. FUNCTIONS

3.1 The sending pad circuit provides for attenuating a 1 MW supply to -16 or -32 dbm for tests on the voice frequency channels of "N" or "O" Carrier Telephone Systems.

3.2 The jack circuits provide for test connections for either the office milliwatt distributing circuit, or for a portable source of test power.

3.3 A start lead provides for remote control of the source of power for the milliwatt distributing circuit.

3.4 A terminating resistance is provided to terminate the milliwatt distributing circuit when the pad circuit is used with an external oscillator.

4. CONNECTING CIRCUITS

4.1 Milliwatt Distributing Circuit - SD-95000-01.

DESCRIPTION OF OPERATION

5. GENERAL

5.1 The sending pad circuit, consisting of two 16 db 600-ohm pads connected between jacks, provides an outlet jack for patch connection to the circuit under test to supply a 1000-cycle test power of 1 MW, or -16 dbm or -32 dbm as desired.

5.2 When the milliwatt distributing circuit is the source of test power, a contact on each jack serves to control the starting of the 1000-cycle machine at the source.

5.3 When the milliwatt source is a portable 1000-cycle machine or some other oscillator, a second patch connection to the (1 MW IN) jack of the pad circuit is required for the -16 or -32 dbm test power.

5.4 When the pad circuit is used with an external oscillator, the plug-in (1 MW IN) jack operates a contact to provide a 600-ohm termination for the milliwatt distributing circuit.

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