

SUMMARY OF DATA

PURPOSE

Medium Power HF Amplifier, used in conjunction with Transmitter Drive Outfit (TDA) for Integrated Communication Systems. Provides unattended operation with rapid changes in transmitted frequency.

TYPE OF TRANSMISSION

ISB, FST and CW.

FREQUENCY RANGE

2 to 28 MHz.

BRIEF DESCRIPTION

The amplifier is a two stage balanced distributed amplifier, using six pairs of CV5809 valves in the Drive Stage and ten pairs of CV8973 valves in the Final Stage. The amplifier has three modes of operation, but only Mode 1 operation is covered in this book. In Mode 1 the amplifier will deliver up to 1 kw into a 50 ohm load. The output is taken through an appropriate aerial exchange outfit to the selected aerial.

MAJOR UNITS

NATO Stock Number	Title
5820-99-972-3005	Cabinet, Electrical Equipment
6120-99-972-3006	Transformer Power Distribution
5820-99-972-3007	Relay Assembly
5820-99-972-3008	Power Supply
5820-99-972-3009	Amplifier, Radio Frequency (Drive)
5820-99-972-3010	Amplifier, Radio Frequency (Final Stage)
5820-99-972-3011	Coupler Directional
5820-99-972-3012	Control, Amplifier
5820-99-972-3013	Control, Power Supply

PHYSICAL DATA

Cabinet, Electrical Equipment

Height	Width	Depth	Weight
64½ in.	20½ in.	27½ in.	288 lb (without units) 786 lb (complete with units)

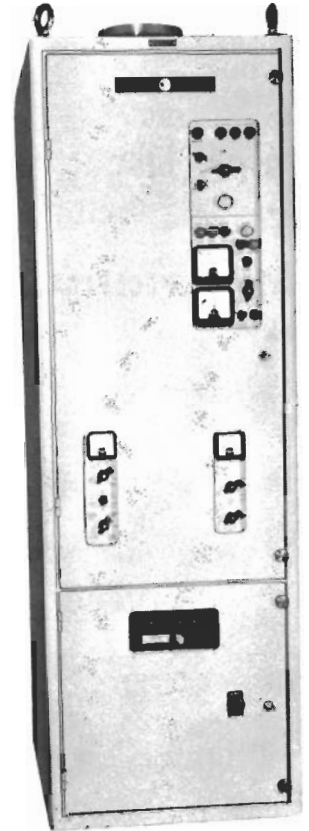
POWER REQUIREMENTS

Nominal 440 V, 50/60 Hz, 3 phase for the transmitter

Voltage limits are 435 V to 455 V

Frequency limits are 48 Hz to 61.5 Hz

115/230 V, 50/60 Hz a.c. or 115/230 V d.c.	}	For anti-condensation heaters
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POWER CONSUMPTION

6½ kw at full power output (Mode 1).

AERIAL SYSTEM

The amplifier is designed to operate through an Aerial Exchange Outfit via a 50 ohm coaxial feeder, to the selected aerial.

HANDBOOK

BR 2431

CB 4951

ESTABLISHMENT LIST

E1472

INSTALLATION SPECIFICATION

B984