

**COMMON AERIAL OUTFIT EBA**

**SUMMARY OF DATA**

EBA

**PURPOSE**

To provide manual and/or automatic tuned multicoupler equipment which enables up to 12 transceivers to operate simultaneously from a common receive or transmit antenna in the UHF band.

**BRIEF DESCRIPTION**

The outfit consists of multicouplers connected to a single broad-band antenna. A receive or transmit multicoupler installation may consist of one or two equipment cabinets, 6-way and/or 3-way. Each cabinet contains a transmission trough feeder, a tuning panel, a power supply and up to six individual multicoupler units. The multicoupler units may be manually and/or automatically tuned and the two types are interchangeable. Each cabinet is dedicated to either transmit or receive.

**MAJOR UNITS**

NSN	Description
5985-99-523-6887	Cabinet Electrical Equipment (6-way)
5985-99-523-6888	Cabinet Electrical Equipment (3-way)
5985-99-523-6901	Antenna Multicoupler, Manual
5985-99-523-6890	Antenna Multicoupler, Automatic
5895-99-523-6889	Power Supply

**PHYSICAL DATA**

Unit	Height	Width	Depth	Weight
Cabinet, 6-way	1600 mm	610 mm	686 mm	146 kg (unladen)
Cabinet, 3-way	1040 mm	610 mm	686 mm	75 kg (unladen)
Multicoupler, Manual	184 mm	508 mm	635 mm	36 kg
Multicoupler, Automatic	184 mm	508 mm	635 mm	41 kg
Power Supply	184 mm	508 mm	584 mm	39 kg

**ELECTRICAL CHARACTERISTICS**

Frequency Range	225-399,975 MHz. Continuously tunable over the whole range on manual. Preset to a maximum of 20 channels inside the band during automatic operation.
Bandwidth	Greater than $\pm 100$ kHz $\pm 1.0$ dB.
VSWR	Maximum at resonance is 1.5 : 1 when terminated in 50 ohms over the frequency range.
Power Output	100 W average.
Channel Changing Time	Auto tune - less than 7 s for a frequency change of 175 MHz.

**POWER SUPPLY**

115-230 V, 40/60 Hz.

**ASSOCIATED AERIAL**

Aerial Outfit AJK(1) or (2)  
Aerial Outfit UK/SRA 102.

**HANDBOOK**

BR 4252.

**ESTABLISHMENT LIST**

S1730.

**INSTALLATION SPECIFICATION**

B1322.