

**RESTRICTED**BR 333(1)  
Original**COMMON AERIAL OUTFIT EAZ****EAZ****SUMMARY OF DATA**

COMMON AERIAL OUTFIT EAZ

**PURPOSE**

Common Aerial Outfit EAZ enables up to eight receivers with low impedance inputs to be fed from a common high impedance wire aerial without reducing receiver performance.

**PRINCIPLE OF OPERATION**

A high impedance wire aerial is coupled to the M.C.U.1 through the cathode follower unit which transforms the impedance down to 75 ohms. In the M.C.U.1, the input is fed via a high pass filter with cut-off frequency of 2 MHz. This filter is followed by an artificial line terminating in a 750 ohm resistor. The eight cathode followers are distributed along the line, the grid circuits forming part of the lumped shunt capacitance. The outputs, at 75 ohms impedance unbalanced are taken from coaxial sockets at the rear of the unit. A built-in milliammeter enables the anode current of each valve to be measured. Each unit is fitted with an internal power supply.

**MAJOR UNITS**

AP 102280	Multi-receiver Coupling Unit, Redifon Type M.C.U.1	Height 7 in, Width 19 in, Depth 11 in, Weight 32 lb
AP 102303	Aerial Cathode Follower Unit, Redifon Type C.F.1	Length 10 in, Width 4½ in, Depth 5 in, Weight 6½ lb

**ELECTRICAL PERFORMANCE**

	C.F.1	M.C.U.1
Frequency Range	95 kHz to 27 MHz	2 to 27 MHz
Input Impedance	High impedance	75 ohms unbalanced
Output Impedance	75 ohms unbalanced	75 ohms unbalanced
Gain	0.45 over frequency range when fed into 75 ohm line	Within the following limits:- 2 to 20 MHz 0 dB to -6 dB for each output 20 to 27 MHz 0 dB to -10 dB for 4 outputs only (SKTS 2 to 5)
Signal to Noise Ratio	Substantially unaffected by insertion of unit up to 20 MHz	Substantially unaffected by insertion of unit up to 20 MHz.
Cross Modulation	A wanted signal of 1 mV will be modulated to a depth of 1% by an unwanted signal of 0.4 V modulated 80%.	A wanted signal of 1 mV will be modulated to a depth of 1% by an unwanted signal of 0.25 V modulated 80%.

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### POWER SUPPLY AND CONSUMPTION

C.F.1	100 to 125 or 200 to 250 V in 5 V steps. 50 to 60 Hz. 12 watts.
M.C.U.1	100 to 125 or 200 to 250 V in 5 V steps. 50 to 60 Hz. 70 watts

### HANDBOOK

BR 2063

### ESTABLISHMENT LIST

E 1143