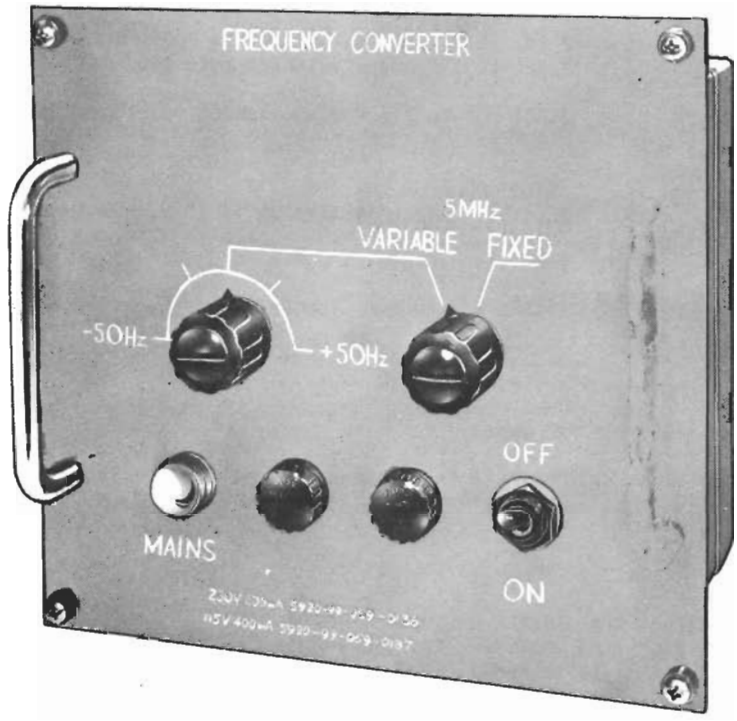
CONVERTER ELECTRONIC FREQUENCY OUTFIT FTA

SUMMARY OF DATA

FTA 1
FTA 2
FTA 3



PURPOSE

To precede an HF receiver and extend its frequency range into the LF/MF bands: 7 kHz to 2.2 MHz.

FREQUENCY RANGE

Input : 7.0 kHz to 2.2 MHz

Output : 5.007 MHz to 7.2 MHz

BRIEF TECHNICAL DESCRIPTION

The converter receives LF/MF signals in the frequency range 7.0 kHz to 2.3 MHz; these are mixed with an internally or externally generated frequency of 5 MHz to produce HF output signals in the frequency range 5.007 to 7.2 MHz. The unit is broadband over the input frequency range.

MAJOR UNITS

5820-99-520-4391	CONVERTER FREQUENCY ELECTRONIC with alternative mountings as follows:
5820-99-520-4393	CABINET ELECTRICAL EQUIPMENT – As Outfit FTA1
5820-99-520-4392	COVER ANTENNA SWITCH – As Outfit FTA2
5820-99-520-4395	CABINET ELECTRICAL EQUIPMENT – As Outfit FTA3

ELECTRICAL CHARACTERISTICS

LOCAL OSCILLATOR

Stability	:	Better than 2 pts. in 10^5 over the operational temperature range.
Input	:	7 kHz to 2.2 MHz balanced into 200 ohms or 7 kHz to 2.2 MHz unbalanced into 200 ohms
Output	:	5.007 MHz to 7.2 MHz unbalanced, designed to work into 75 ohms.

INPUT SIGNAL

Protection	:	Protection is effective up to 20 V peak-to-peak.
Noise Figure	:	Less than 10 dB
Frequency Response	:	Within ± 1 dB over the entire frequency range.
Power Supply	:	115 V ± 5% at 60 Hz ± 3% or 230 V ± 6% at 50 Hz ± 4%.
Power Consumption	:	20 watts.
Climatic Conditions	:	The unit is designed to meet the requirements laid down in DEF Specification 133N1 (excluding tests Nos. 4, 6, 7, 8, 9, 10, 13 and 16).

PHYSICAL DATA

Dimensions: Height : 8 inches (20.3 cm)
Width : 8¾ inches (22.23 cm)
Depth : 5¼ inches (13.3 cm), including handles

Weight: 8.5 lb (3.85 kg). (Converter only).

HANDBOOK

BR 4126

ESTABLISHMENT LIST

S1597

INSTALLATION SPECIFICATION

B1100