

P9CFM-25
25W STEREO TRANSMITTER/EXCITER

TECHNICAL DATA FOR
FCC CERTIFICATION

General Description

INTRODUCTION

The FM-25 Stereo Transmitter/Exciter forms part of a new range of Professional FM Broadcast Exciters produced by Broadcast Solutions Electronics.

1. The FM-25 Transmitter/Exciter forms a compact, solid state FM Broadcast transmitter with a RF output in excess of 25W in the FM Broadcasting band (87.5MHz to 108MHz). The unit is housed in a 19 inch rack mount case occupying only a 1U space. The Exciter features a range of customer options including a built in, high quality Stereo coder and RS485 Telemetry.
2. The FM-25 Transmitter/ Exciter offers a standard specification, well above the requirements of major broadcasters in the world. This level of performance is only found in the very best equipment the market has to offer.
3. The following basic versions are available:
 - a) FM-25 (W) Wideband MPX Exciter (For use with composite input).
 - b) FM-25 (S) Stereo Exciter (With built in Stereo coder and Audio Limiter).
 - c) FM-25 (M) Mono Exciter (For use with Mono input).

4. STRUCTURE.

The Transmitter/Exciter comprises of the following modules.

- a) Synthesizer/Modulator module (98052100).
- b) Control/Monitoring module (98052200).
- c) 25W RF PA module (98052700).
- d) Power supply module (98053000).
- e) Display module (98052400).
- f) Stereo coder/Limiter (98052000). (optional).

Each module is Field replaceable, in line with BSE maintenance philosophy. This allows the customer to change a module, or to upgrade options easily.

5. FEATURES

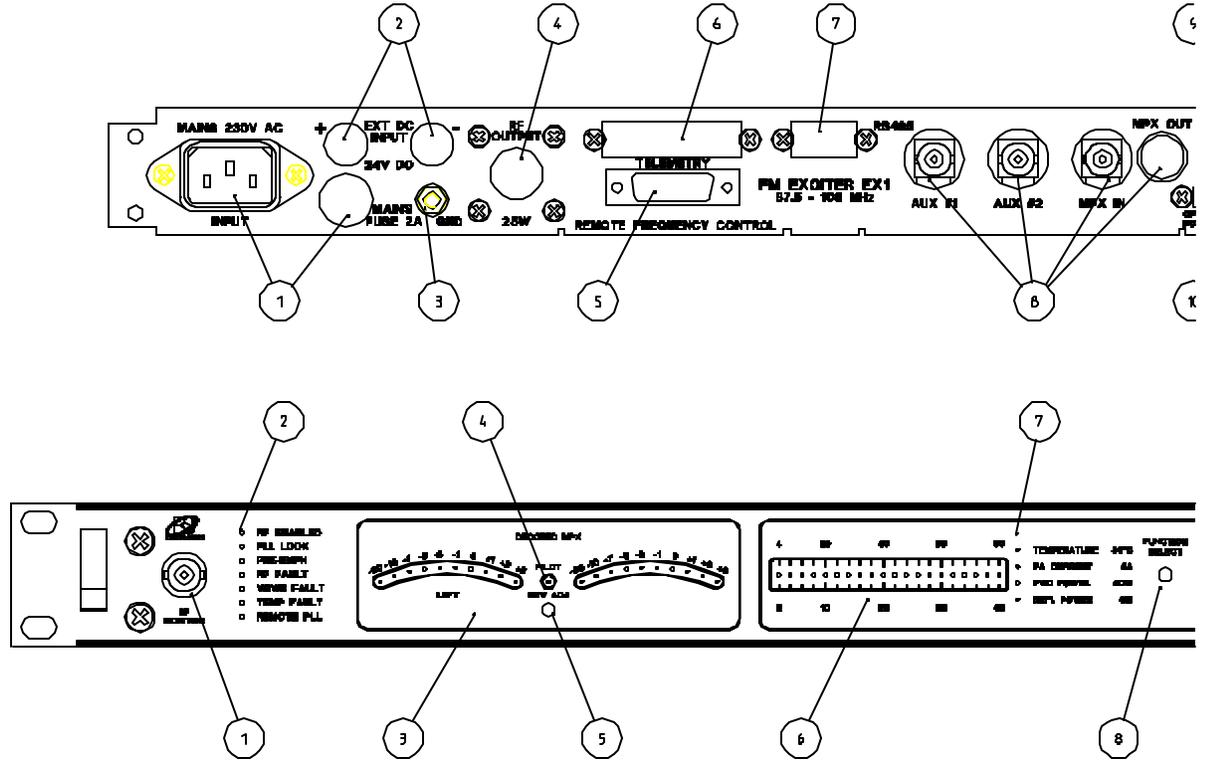
The FM-25 Exciter has standard features including the following;

- a) Remote/Internal frequency selection (standard).
- b) Remote telemetry with voltage free contacts (standard).
- c) +24V Battery operation (standard).
- d) Wideband input (MPX) with two auxiliary inputs (SST/SCA/RDS).
- e) Comprehensive metering including VU meters. (Built in Stereo decoder).
- f) ALC built in for absolute control of RF output power.
- g) Comprehensive protection built in.

6. BLOCK DIAGRAM DESCRIPTION.

Refer to the Front panel layout and Rear panel controls and connectors in Figure 1, and the Block diagram of FM-25 in Figure 2

Figure 1: Front panel layout and rear panel connectors and functions



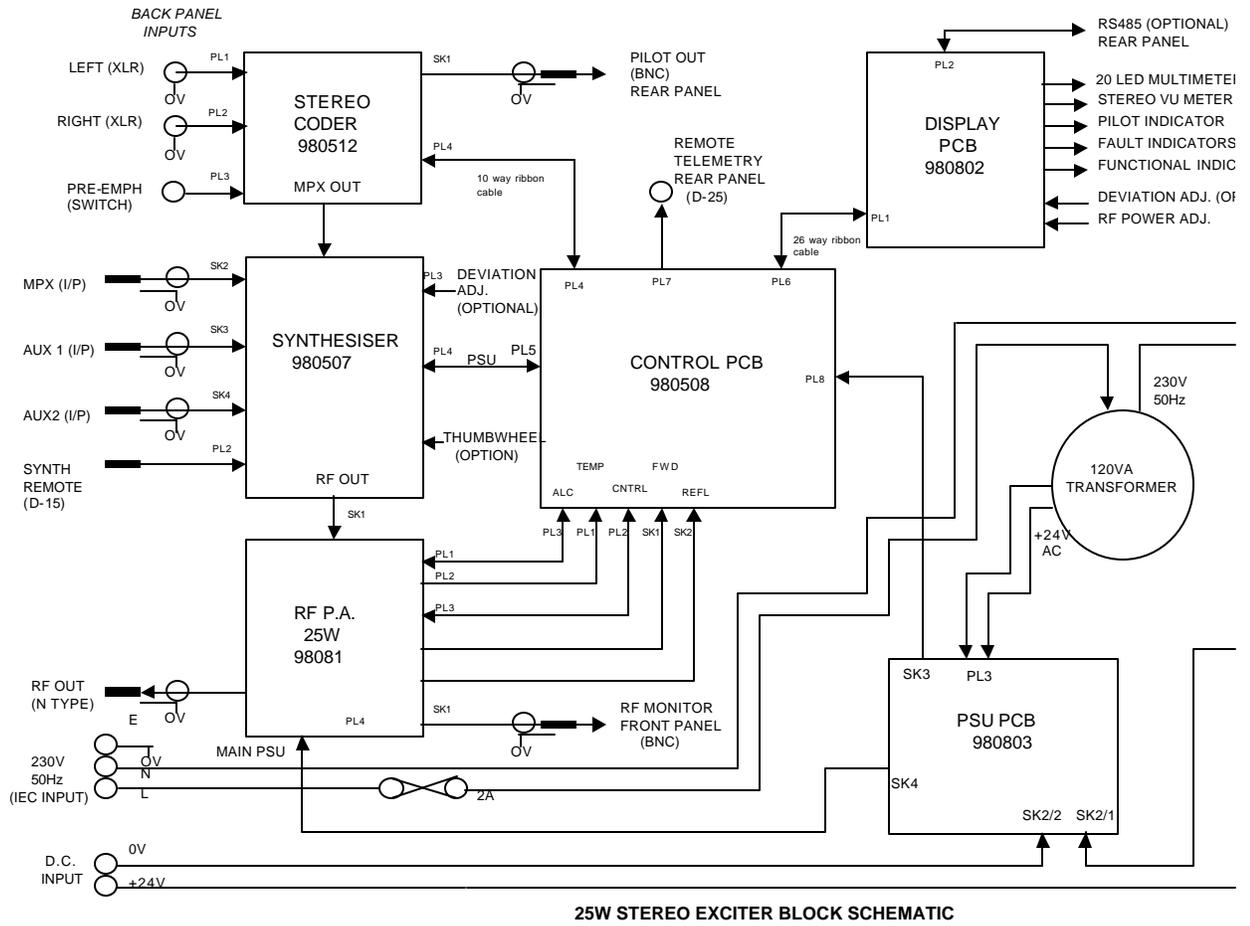


Figure 2: Block diagram of FM-25