FMX1+ 1W FM BROADCAST EXCITER

SRK ELECTRONICS PTY LTD

1 watt continuous output power.
High quality audio performance.
Rugged design.
Stereo generator & audio limiter as standard
Fully solid state.
Remote controlled.
Easy to use.
Self test and auto diagnostics.
Frequency agile.
Designed and made in Australia.
3 year guarantee.

The FMX1+ is a solid state 1W FM exciter designed for FM broadcast service.

The heart of the FMX1+ is a microprocessor controlled, low phase noise, phase locked loop. This gives excellent audio performance whilst allowing total carrier frequency flexibility.

The signal from the PLL is amplified up to in excess of 1W by a broadband MOSFET stage. One advantage of this technique is a high level of tolerance to reflected power.

For maximum value for money, the FMX1+ comes complete with a stereo generator as standard.

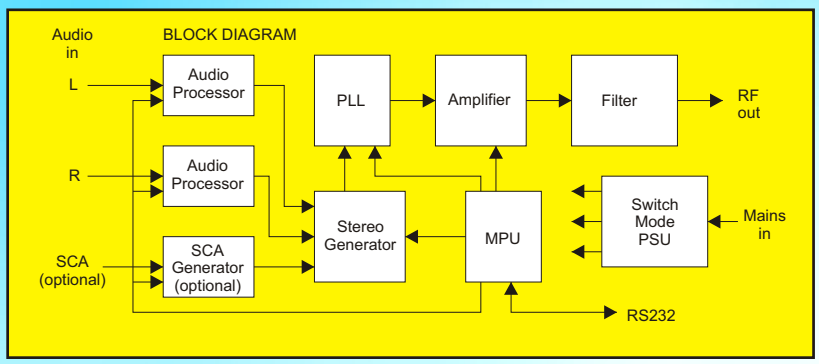
The audio input processors incorporate Bessel anti-alias filters as well as peak limiters.

Central to the operation of the FMX1+ is the microprocessor. Amongst other things, the MPU is responsible for setting carrier frequency as well as the remote control functions.

Forward power, reverse power, peak deviation and carrier frequency are able to be measured and displayed on the front panel or read via the RS232 telemetry function.

All these features and more make the FMX1+ extremely flexible. Over SWR protection is standard.

Each FMX1+ comes complete with extensive documentation covering installation, use, maintenance and trouble shooting.



FMX1+ Specifications

Output power	>1W continuous
Carrier frequency	87.5 to 108.0 MHz
Channel spacing	100 KHz
Carrier stability	<1KHz from nominal
Modulation	Stereo FM 75KHz peak deviation
Audio frequency response	10Hz to 15KHz
Pre-emphasis	75uS, 50uS or none
Distortion	<0.1%
Audio SNR	>70dB
Stereo separation	>40dB
Line voltage	240VAC +/-15%
Line power	<30VA
Audio input level	-10dBm to +10dBm
Audio input impedance	10K un-balanced
Protection	Over SWR
Physical dimensions (approx)	Width 500mm Depth 250mm Height 44mm
Weight (approx)	<4Kg
Cooling	Convection
Input audio connector	RCA female
Input line connector	IEC male
Output RF connector	N female

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