



# FTC1K5

## 1500 W FM TRANSMITTER



The FTC1K5 FM transmitter is designed to provide more reliable FM transmitters using the extremely rugged LDMOS power transistor for the FM broadcast market.

Less weight and dimensions of Compact transmitters provide less transport cost.

### Main Features

- Very compact case (3U rack)
- Direct to channel digital exciter with built in RDS encoder
- Very Efficient LDMOS Amplifier
- Excellent audio performance
- Measurement and display of the transmitter's working parameters
- High Reliability Use Of Microstrip Technology
- Forward power, reflected power, heatsink temperature, transistor current and voltage protections





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### Technical Parameters

GENERAL DATA	Output Power Range	0 - 1500 W
	RF Output Connector	7/16
	Operating Band	87.5 - 108.0 MHz
	Dimensions: W-H-D	48.5-55-13.5cm (3U Rack Unit)
	Weight	23 kg
	RF Power Stage Technology	LD MOS
	Automatic Power RF Control	Stabilized output power value on the set value
	Overall Output Power RF Stability	$\pm 0.1$ dB
	Cooling System	Forced air-cooling
	Air outlet	On the rear. Cooling low 2200/2400 m <sup>3</sup> /h (depending on environment)
AUDIO & RF DATA	L/R Input Level	0 dBm (0.636Vpk)
	L/R Level Adjustment	Soft adjust from back panel via trimmer
	L/R Input Impedance	600 ohm unbalanced
	PILOT Tone Frequency	19 KHz
	PILOT Tone Frequency Stability	$\pm 1$ Hz
	THD+N (stereo/mono operation)	0.03% @ 400 Hz
	Pre-emphasis	50/75 $\mu$ s selectable from front panel
	Pre-emphasis Tolerance	$\pm 0.1$ dB
	FM S/N Mono	63 dB
	FM S/N Stereo	58 dB
	Amplitude-frequency characteristic	$\pm 0.15$ dB, 30 Hz to 15 KHz
	Stereo Crosstalk (typical)	Main to Sub - 35 dB 30 Hz to 15 KHz
	Class of Emission	F3
	Stereo Emission	According to ITU-R recommendation 450 (pilot tone)
	PLL Lock Time	110 ms
Frequency Deviation	$\pm 75$ KHz	
Maximum Frequency Deviation	$\pm 90$ KHz	
Frequency Stability	$\pm 1$ ppm from - 5 to 45°C.	
RF Frequency Steps	100 KHz	
INSTALLATION REQUIREMENTS	AC Voltage	90/264 VAC- 47- 63Hz
	Power Consumption	1950 VA
	Current consumption @220V AC	8.9 A
	Overall Efficiency	70%
Power Factor	>0.95	
ENVIRONMENT	Temperature Range (operating)	-5 / + 45°C, 23 / 113 °F
	Humidity Range (operating)	90 % @ 40°C, 104°F
	Altitude Range (operating)	< 2000 meters / <13125 Feet