

Data Sheet: F-RF-Tx

The F-RF-TX transmitter is used to transmit RF cable TV signals (45-870MHz) over a fiber optic cable. By converting the RF band to an optical signal the transmission distance can be increased to over 120 km. The transmitter uses external modulation technology with a direct current laser. This results in no laser chirp, low dispersion distortion, a large extinction ratio, and high speed signal transfer. The F-RF-TX features an easy to read front panel LCD screen that displays relative operating status and fault information. The unit implements a high linearity DFB laser, and features built in pre-distortion adjustment circuitry. The F-RF-TX direct modulated optical transmitter can be used in FTTx (10Km) of second-grade service area (Sub-HE) and can also be used in WDM narrow-band multiplexing and IP/QAM. Our RF transmitter units feature dual power supplies for added fault protection. All operating parameters of the F-RF-TX series transmitters are designed for high reliability and suitable for even the most high end applications.



Typical F-RF-Tx Application



Technical Specifications

Optical Features

Wavelength:	1548 – 1563	
Linewidth:	<1 MHz	FWHM
Suppression Ratio	>45 dB	SMSR
Intensity	<-160 dB/Hz	RIN 20-1000MHz
Output Power:	6mW	Optional 3 – 10
Return Loss:	>55	
Optical Connector:	SC/APC	FC/APC

RF Features

Work Bandwidth:	45 – 862 MHz	
Input Level	19 – 21 dBmV	MGC
Flatness:	<±0.75 dB	45 – 862 MHz
Return Loss:	>16 dB	
Input Impedance	75 Ohm	RF/INPUT
RF Interface:	F-Type	or by request

Link Features

Transmit channel	PAL-D/60CH	NTSC/80CH
CNR	>50 dB	
CTB	<-63	
CSO	<-57 dB	
SBC restrain	>17	

General Features

Network Interface:	RJ45, RS232	IE and SNMP
Operating Temp:	5 – 65 (°C)	
Storage Temp:	-40 – 85 (°C)	
Operating Humidity:	0 – 90 (%)	
Storage Humidity:	0 – 90 (%)	
Power Requirements:	110/240V Auto Sense	
Dimensions:	19x10x1.75 (W)x(D)x(H)	

