

FT13xxEG 1310nm Direct Modulation Optical Transmitter



Product description

The FT13xxEG AM laser transmitter delivers high performance signal transmission of NTSC, PAL, digital or compressed digital information for CATV and/or telephony applications. It is based upon custom high-linearity, optically isolated DFB (Distributed Feedback) lasers, which are specifically designed for multi-channel AM video applications. The unit also features a GaAs driver amplifier and pre-distorter circuit, which together provide exceptionally low noise and inter-modulation characteristics. Automatic output power control, coupled with temperature stabilization provided by a thermoelectric cooler, ensures maximum performance and longer laser life.

Product features

- American Ortel or Japanese Fujitsu cooled and isolated butterfly DFB Laser diodes.
- All FT13xxEG units are built with a pre-distortion circuitry to improve the CSO ≥ 8 dB.

Technical specifications

Performance			Index	Supplement
Optic feature	wavelength	(nm)	1310±10	
	Output power	(mW)	2~32	
	Return loss	(dB)	≥ 55	
	optical fiber connector		SC/APC	Optional FC/APC
RF feature	Work bandwidth	(MHz)	45-1000	

	Input level	(dBmV)	22±2	Typ 23dBmV
	Flatness	(dB)	≤±0.75	45~1000MHz
	Return loss	(dB)	>16	
	Input impedance	(Ω)	75	
	RF interface		F type	
Link feature	Transmit channel		NTSC/80CH	
	CNR	(dB)	≥52	10Km optical fiber, 0dBm receive
	CTB	(dB)	≤-67	
	CSO	(dB)	≤-63	
General feature	Network interface port		RJ45, RS232	Optional I.E. & SNMP
	Power supply	(V)	90~265VAC	-48VDC optional(30~60VDC)
	Power Consumption	(W)	≤50	
	Work temp.	(°C)	-5~65	
	Storage temp.	(°C)	-40~85	
	Operating humidity	(%)	5~95	
	Size	(")	19×10×1.75	(W)x(D)x(H)

Product series

Model	Power(mW)	Bandwidth(MHz)	NTSC 80 CHAN Link Performance			
			Link Loss	CNR2	CTB	CSO
FT1302EG	≥2	47~1000	5	≥52	≤-67	≤-63
FT1306EG	≥6	47~1000	9	≥52	≤-67	≤-63
FT1310EG	≥10	47~1000	11	≥52	≤-67	≤-63
FT1316EG	≥16	47~1000	13	≥52	≤-67	≤-63