

1310nm CATV Fiber Optic Transmitter



Product Specifications

Link Performance	
CNR Vs Link Loss	see table below
CSO	$\leq -64\text{dBc}$
CTB	$\leq -68\text{dBc}$
Bandwith	45 - 862MHz
Flatness	$\pm 0.75\text{dB}$
Channel Loading	77 NTSC Channels + 200MHz Digital Channels
Optical Parameters	
Wavelength	$1310 \pm 20\text{nm}$
Connector	SC/APC with eye shutter FC/APC, or E2000
Output Power	4mW - 20mW
RF Parameters	
Input Level	15 - 25dBmV/channel
Gain Control Range	10dB
Input Impedance	75Ω
Return Loss	$> 16\text{dB}$
Connector Type	F Type
Electrical/Physical/Environmental	
Control Interface	RS485
Power Supply	90 - 260VAC, 50/60Hz, 15W (Max.)
Dimension	85 W x 350 L x 45 H (mm)
Operating Temp.	$0^{\circ}\text{C} - 50^{\circ}\text{C}$
Storage Temp.	$-40^{\circ}\text{C} \text{ to } 70^{\circ}\text{C}$
Relative Humidity	85% Max.
Weight	9.9 lbs (4.5Kg)

Link Performance (CNR)												
Typical Performance												
Model	Output Power	5dB	6dB	7dB	8dB	9dB	10dB	11dB	12dB	13dB	14dB	15dB
CTX1310-7	4mW	54	53	52	51							
CTX1310-8	6mW		54	53.5	52.5	51.5						
CTX1310-10	8mW				54	53	52	50.5				
CTX1310-11	10mW					54	53	52	50.5			
CTX1310-12	13mW						54	53	52	50.5		
CTX1310-13	16mW							54	53	52	50.5	
CTX1310-14	20mW								54	53	52	50.5
CSO $\leq -64\text{dBc}$												
CTB $\leq -68\text{dBc}$												
XM $\leq -65\text{dBc}$												

Test conditions: (1) Optical loss all fiber +0.5dB passive. (2) Room temperature $25^{\circ}\text{C} \pm 5$. (3) 77 CW carriers (NTSC frequency planning). (4) Typical value $\pm 0.5\text{dB}$ measurement uncertainly.