

Model 2806

77 Channel CATV Limited Distance Solution (LDS)



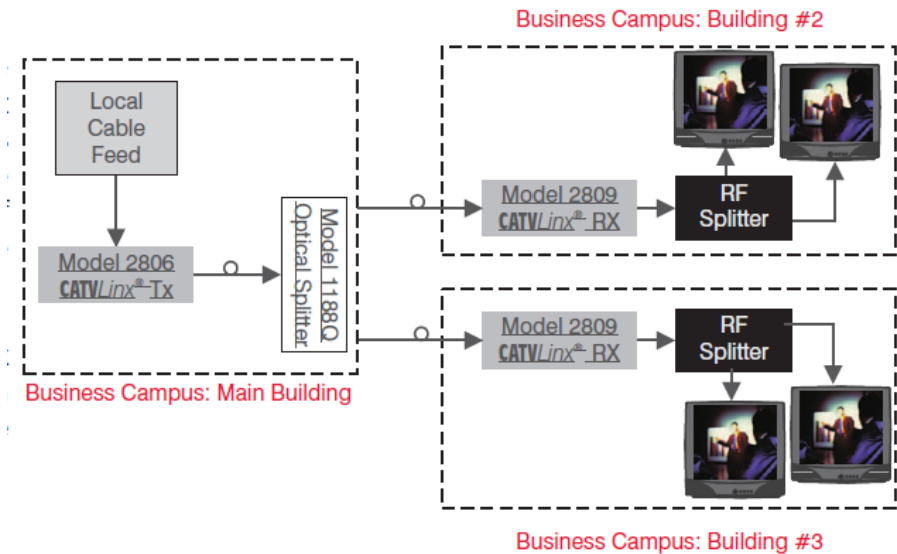
Features

- Transmits up to 77 Channels Over One Singlemode Fiber.
- VSB/AM Transmission Ensures Compatibility with Standard CATV Modulators, Processors, etc.
- Designed for Distances up to 10 km, Offers an Optical Output Power of +4.5 dBm.
- Convenient Compact (3" x 8.5") Enclosure is One of the Smallest in the CATV Industry.
- Built-In, Universal AC Power Supply Frees System User from Bulky Wall-Mount AC Adapters.
- Excellent for Low Budget Structured In-Building Premise Wiring Video Applications.

The Model 2806 77 Channel CATV LDS transmitter is part of a low cost system for transporting up to 77 Channels of VSB/AM modulated signals over a singlemode optical fiber. The system provides 40-870 MHz of usable bandwidth for video signals stacked at 6 MHz intervals. A low loss singlemode fiber allows full channel loading to beyond 10 km while maintaining a good carrier-to-noise ratio. Because of its relatively small size, the Model 2806 can be mounted almost anywhere and it is a true plug-and-play system when used with Model 2808 or Model 2809 receivers. Together, this link provides excellent performance for many demanding applications such as broadband LANs, distance learning, and multiple data services.

77 Channel Transmitter Part Numbers

Description	Part Number
Flange Mount Transmitter, +4.5 dBm Optical Output Power, SC/APC Optical Connector	2806T-SCSP
Flange Mount Transmitter, +4.5 dBm Optical Output Power, FC/APC Optical Connector	2806T-SCAP



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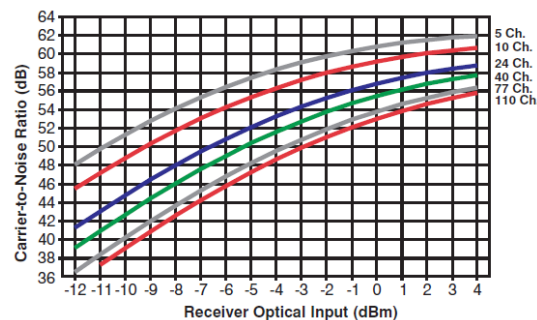
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FIBER OPTICS

RF & Optical Characteristics

Parameter	Min	Typ	Max	Units
Channel Loading	-	-	77	ch
Operating Wavelength	1290	1310	1330	nm
Optical Output Power	-	+4.5	-	dBm
Bandwidth	40	-	870	MHz
Input/Output RF Impedance	-	75	-	Ohms
Side Mode Suppression Ratio	30	40	-	dB
Backreflection Tolerance	-	-	-50	dB
Required Fiber Bandwidth	2,000	-	-	MHz
Composite Second Order (CSO)	-	-57	-	dBc
Composite Triple Beat (CTB)	-	-65	-	dBc
Carrier-to-Noise Ratio		See Graph		dB

Carrier-to-Noise Performance



System performance specifications indicated for use with 9/125 μ m singlemode fiber.

Electrical Characteristics

Parameter	Min	Typ	Max	Units
Power Supply Voltage	-	120	240	V _{AC}
Power Supply Frequency	50	60	-	Hz
Power Supply Current	-	75	-	mA

Physical Characteristics

Parameter	Min	Typ	Max	Units
Weight	-	1.0	-	lb
		0.45		kg
Dimensions	-	8.45 x 2.95 x 1.12	-	in
		215 x 75 x 29		mm

Environmental Characteristics

Parameter	Min	Typ	Max	Units
Operating Temperature Range	0	-	+45	°C
Storage Temperature Range	-20	-	+70	°C
Relative Humidity	0	-	90	%