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XLEQ

UltraBand™ Line Equalizer

Vyvo's high performance Line Equalizer (XLEQ) is designed to compensate for feeder cable slope in the forward legacy band. The XLEQ supports two bands, the legacy CATV band of 5MHz to 1003MHz and the UltraBand of 1300MHz to 2750MHz.

The XLEQ also includes the option of adding attenuation to the legacy return path (5-42MHz) that enables improved signal-to-noise performance (in an ingress environment) and tighter gain variances.

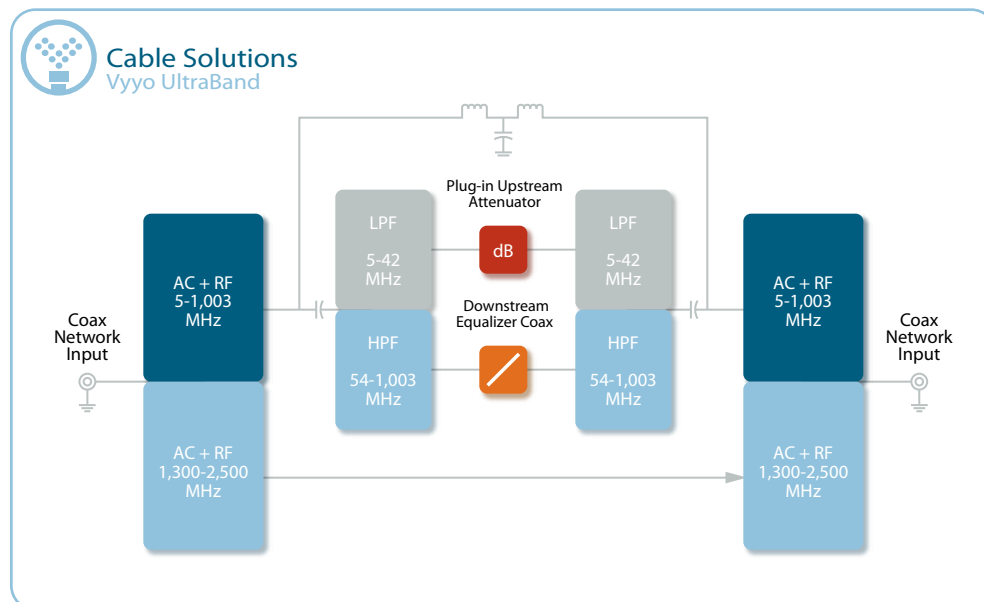
The performance of the UltraBand Line Equalizer is designed to meet or exceed the performance of line equalizers offered today and conforms to FCC and SCTE specifications.

The XLEQ has 3 types: 0, 9, 11 dB forward equalization slope and each accepts reverse attenuation plug-in module.



KEY FEATURES

- ▣ PassBand up to 2750 MHz.
- ▣ Supports Legacy PassBand from 5MHz to 1003MHz.
- ▣ Designed with low insertion loss up to 2750MHz.
- ▣ The use of a proprietary screwless seizure mechanism reduces the likelihood of Common Path Distortion (CPD).
- ▣ Upstream plug-In attenuator is set to improve upstream system performance and equalization.
- ▣ Feeder line continuity when faceplate is removed with advanced Make Before Break (MBB) Mechanism enabling AC and RF continuity to 2750MHz.



XLEQ Specifications*

Devices	5	42	54	450	750	870	1,003	1,300	1,600	1,950	2,250	2,500
XLEQ – 0dB Insertion Loss [db]	0.8	1.2	1.3	1	1.2	1.5	2	1.8	1.6	1.6	1.2	1.3
XLEQ – 9dB Insertion Loss [db]	0.8	1.2	8.9	5.7	3.1	2.3	2.4	1.8	1.6	1.6	1.2	1.3
XLEQ – 11dB Insertion Loss [db]	0.8	1.2	10.7	5.9	3.3	2.7	2.5	1.8	1.6	1.6	1.2	1.3

Flatness	Typical Flatness [dB]
Frequency [MHz]	
5-42	±0.30
54-1,003	±0.40
1,300-1,600	±0.40
1,601-1,950	±0.40
2,250-2,500	±0.50

Return Loss	5-10	11-42	54-1,000	1,350-1,600	1,601-1,950	2,250-2,500
Frequency (MHz)						
XLEQ – 0, 9, 11	16	17	17	14	13	13

Group Delay	Differential Group Delay [nSec]	Frequency [MHz]	Chroma/Luma Delay [nSec]	Frequency [MHz]	Absolute Group Delay [nSec]
5.0-6.5	45	55.25-58.83	15	1,300	3.2
6.5-8.0	20	61.25-64.83	7	1,650	1.5
8.0-9.5	9			1,950	1.5
37.5-39.0	7			2,250	1.5
39.0-40.5	8			2,500	1.5
40.5-42.0	17				

Chrominance/Luminance at 3.58MHz above the video carrier
Legacy Reverse Propagation Delay in 1.5MHz bandwidth

Additional Specifications		
Upstream Attenuator	PassBand	5-42MHz
	Attenuation Values	0-15dB in 1dB steps
	Return Loss	20dB
Surge Resistance	IEEE Category B1 C62.41-1991	
Hum Modulation at 12A	Frequencies 5-10MHz	-60dB minimum
	Frequencies 11-42MHz	-65dB minimum
	Frequencies 54-870MHz	-65dB minimum
	Frequencies 871-2500MHz	-60dB minimum
Power Passing	15A Maximum	
RFI	-90dB Minimum	
Operating Temperature	-40° - +140° F	
Dimensions (inches)	5.8L x 3.1H x 5.5W inches	
Weight	2.2 lbs	

*All specifications are typical unless otherwise noted.

*In the interest of product improvement, specifications are subject to change.

