



4CLE97 750 MHz Line Extender

**2 Year
Warranty**



Drop In replacement for Magnavox/Philips 5 & 6LE

High Gain 43 dB

Low Noise Figure 6 dB

High Output 50 dBmV

Built in Return Amplifier

Standard Interstage EQ's and Pads

Plug in Diplexers for future split changes

100% New Construction with 90 Volt Power Supply

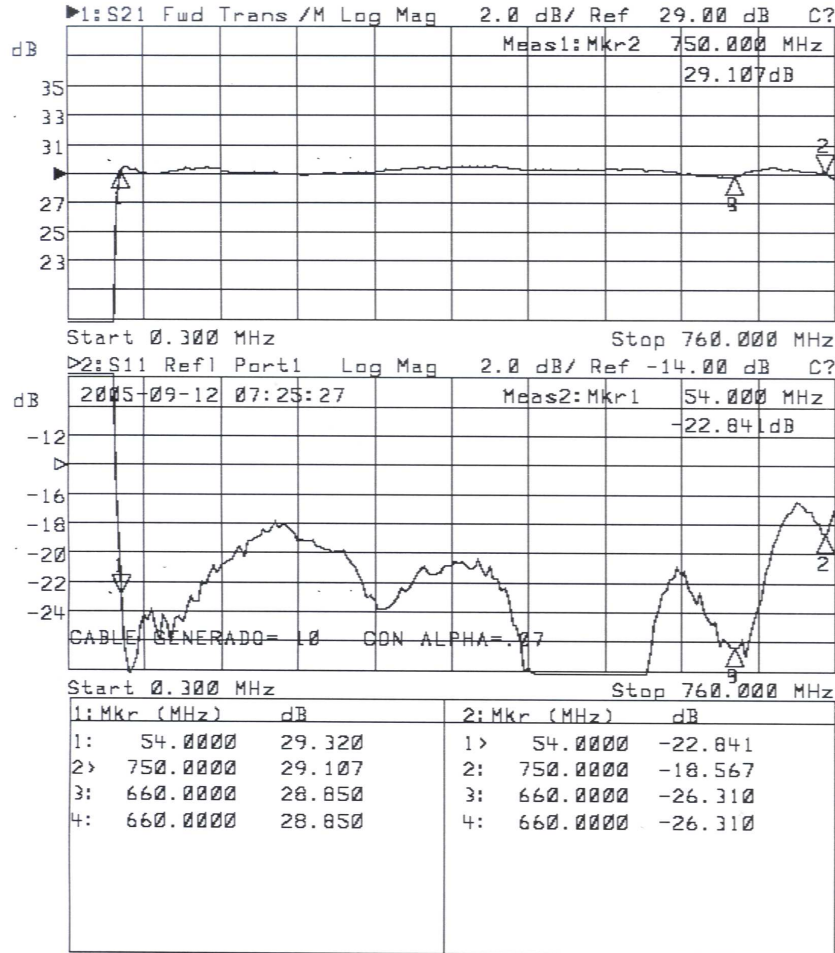
Specifications in Housing

Parameter	Test Conditions	Units	Notes	Forward	Reverse	
Technology	-	-	-	GaAs FET PD	Silicon	
Bandwidth	-	MHz	-	54-750	5-40	
Response Flatness	-	dB	-	+/-0.5	+/-0.5	
Minimum Full Gain	-	dB	1	43	20/25	
Operational Gain	-	dB	-	41	20	
Slope	Cable Equivalent	dB	-	10	0	
Input Test Points	-	dB	-	-20 +/-0.75	-20 +/-1	
Output Test Points	-	dB	4	-20 +/-0.75	External on housing	
Input Return Loss	Freq	5-40 MHz	dB	2	-	15
		54-750 MHz			16	
Output Return Loss	Freq	5-40 MHz	dB	-	15	
		54-750 MHz				16
Loop Isolation	-	dB	-	> -30		
DC Current Draw (max)	-	mA	-	800		
AC Current Draw (max)	90 VAC	mA	-	274		
	60 VAC			398		
	50 VAC			482		
	40 VAC			624		
Noise Figure	-	dB	-	6	4.5	
Distortion Measurements @ rated loading						
Reference Frequencies	-	MHz	-	55/550/750	T7-T12	
Output Levels	-	dBmV	-	38/48/51	36	
Channel Loading	-	NTSC	3	77 + 33 digital	4 channels	
Composite Triple Beat	-	dBc	-	65	86	
Composite Second Order	-	dBc	-	67	86	
Carrier to Noise	-	dB	-	60	74	
Cross Modulation	-	dBc	-	69	84	

Notes:

1. Factory alignment with 10dB cable equivalent, 3 dB of Interstage pad and 30 dB of flat gain. Gain dependant on reverse hybrid selection.
2. All return loss measurements made with 0 dB pads and a #18 gauge wire jumpers in place of the equalizers.
3. Distortion measurements made with 77 analog channels and 33 digital channels running 6 dB down from an analog equivalent.
4. Resistive -20 dB test points on the housing

4CLE97 Sweep and Input Return Loss



Available now from stock to 4 weeks

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