4CLE1000L 1 GHz Line Extender

2 Year Warranty

LOW CURRENT 410 mA

Drop In replacement for Magnavox/Philips 5 & 6LE

PowerMiser™

- **High Gain 39 dB**
- **½ the Current Draw of Conventional Amps**
- **$8.00 per year average savings on Electric**
- **Low Noise Figure 7 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**
- **Breakthrough Low Current Technology**

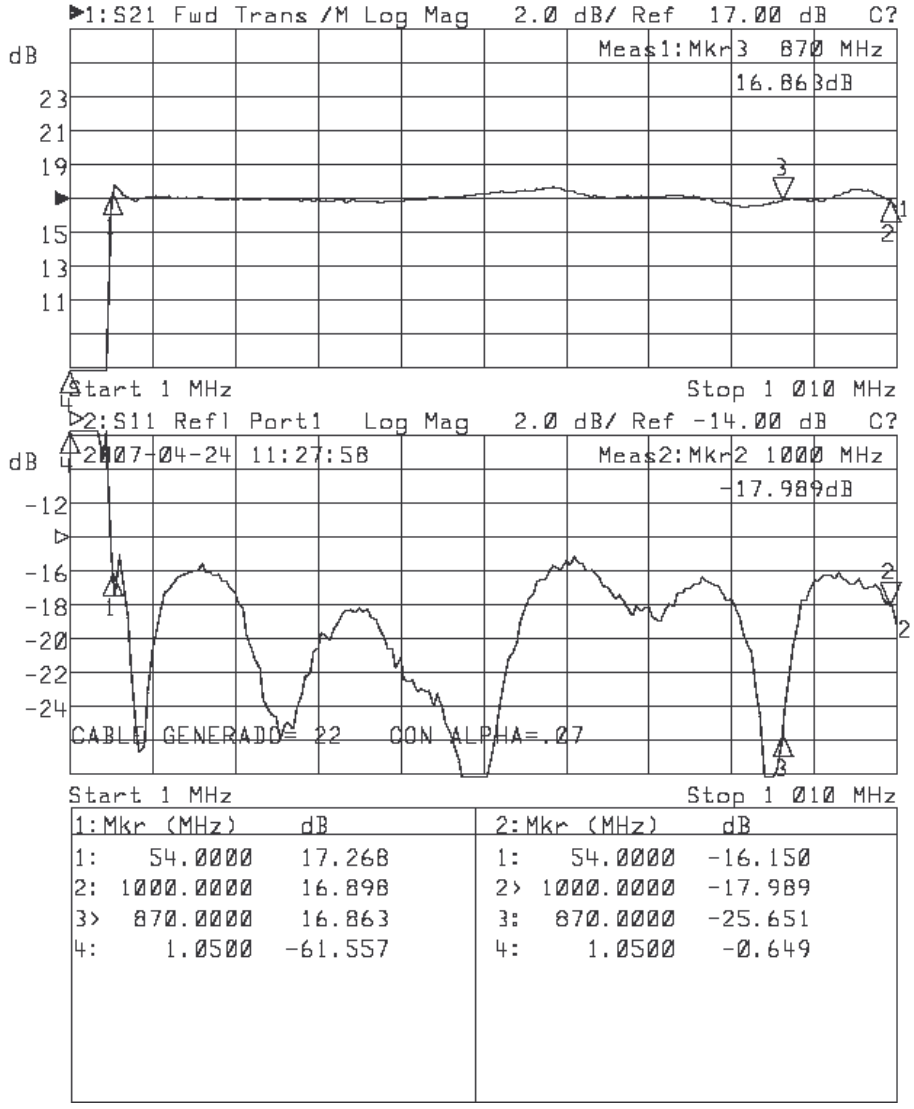
Specifications in Housing

Parameter	Test Conditions		Units	Notes	Forward	Reverse
Technology	-		-	-	GaAs	GaAs
Bandwidth	-		MHz	-	54-1003	5-40
Response Flatness	-		dB	-	+/-0.75	+/-0.5
Minimum Full Gain	-		dB	1	39*	20
Operational Gain	-		dB	-	38	19
Slope Built in	Cable Equivalent		dB		22	0
Input Test Points	-		dB	-	-20 +/-1	-20 +/-1
Output Test Points	-		dB	4	-20 +/-1	External on housing
Input Return Loss	Freq	5-40 MHz	dB	2	-	16
		54-1003 MHz			16	
Output Return Loss	Freq	5-40 MHz	dB		-	16
		54-1003 MHz			16	
Loop Isolation	-		dB	-	> 30	
DC Current Draw (max)	**@24 Volts DC**		**mA**	-	**410**	
AC Current Draw (max)	**90 VAC**		**mA**	**-**	**160**	
	60 VAC				**200**	
	50 VAC				**230**	
	40 VAC				**290**	
Noise Figure	-		dB	-	7	4.5
Distortion Measurements @ rated loading						
Reference Frequencies	-		MHz		55/550/870/1GHz	T7-T12
Output Levels	-		dBmV	-	35/44/49.5/52	36
Channel Loading	-		NTSC	3	79 + 450 MHz digital or equalivlent	4 channels
Composite Triple Beat	-		dBc	-	74	86
Composite Second Order			dBc	-	77	86
Carrier to Noise			dB	-	60	74
Cross Modulation			dBc	-	74	84

Notes:

1. Factory alignment with 22 dB cable equivalent, and 17 dB of flat gain. 42 dB gain version available
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 79 analog channels and 450 MHz digital channels or equalivlent noise running 6 dB down from an analog equivalent.
4. Resistive -20 dB test points on the housing
5. Reverse sweep can be inserted using the output test point of the restive test point on the housing

Recorded Sweep



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