VL-LE870 1 Port Line Extender

Description

The VL-SLE870 Line extender is a compact bi-directional amplifier. It provides high gain with excellent distortion performance. Plug-in accessories allow for precise control of the RF level and slope in both the forward and revere path. The fin designed housing has exceptional heat dissipation. Directional test-points make measurement and adjustment easy greatly simplifying installation.

Specifications

Parameter	Unit	Specification
Forward		
RF Section Performance		
RF bandwidth	MHz	54-870
Return loss	-dB	≥16
Flatness	dB	+/-0.75
Gain	dB	30(with AGC) 34 (without AGC)
AGC	dB	Input range +/-3dB(single pilot)
Test point	dB	-20+/-1
Noise figure	dB	<8
Slope control	dB	0 to 20(1.5dB step), plug-in EQs
Attenuator	dB	0 to 20(1.5dB step), plug-in PADs
Impedance	ohm	75
Distortion Performance(NTSC77 channels，10dB slope and 44dBmV output level)		
CSO	-dBc	>67
CTB	-dBc	>65
XMOD	-dBc	>65
Reverse		
RF Performance		
Bandwidth	MHz	5 to 42
Flatness	dB	+/-0.75
Return loss	-dB	≥16
Gain level	dB	20
Noise figure	dB	<8
Slope control	dB	0 to 12(1dB step), plug-in EQs
Attenuator	dB	0 to 20(1dB step), plug-in PADs
Test point	dB	-20+/-1

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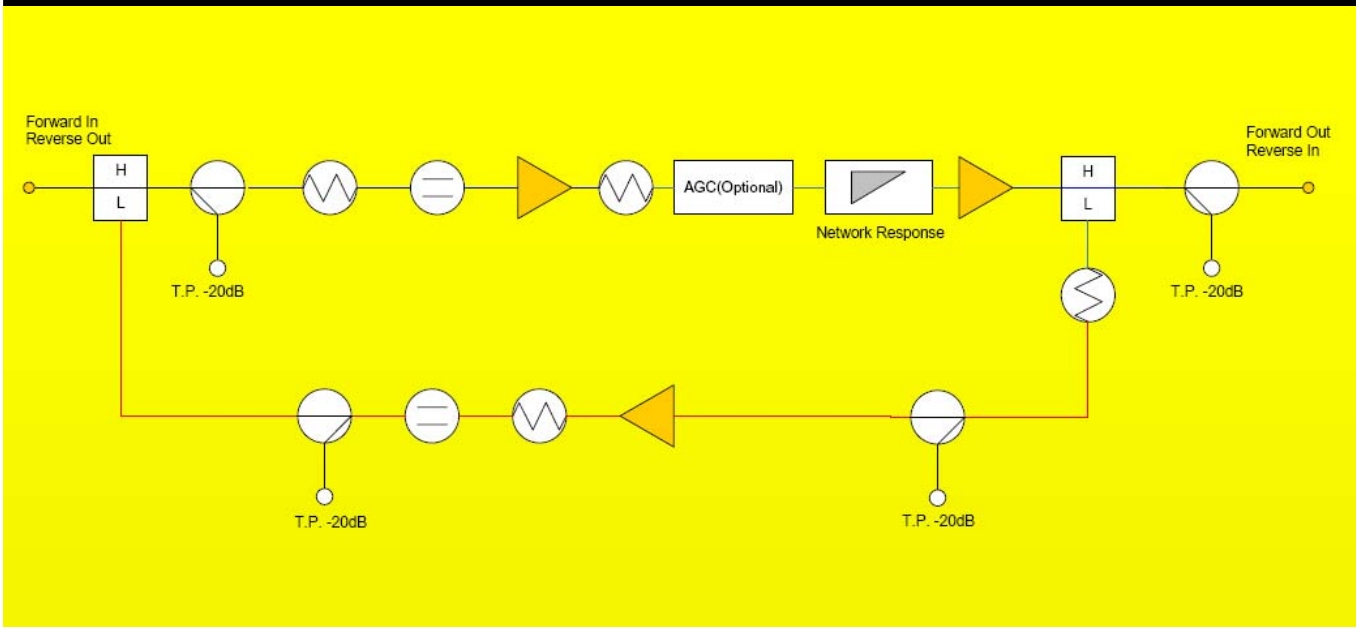
Distortion Performance (13 and 19MHz, 0dB attenuator and 35dBmV output)		
CSO	-dBc	>82
CTB	-dBc	>90
XMOD	-dBc	>80
Electrical/Physical/Environmental Performance		
Supply voltage	VAC	40 to 90
Input current capability	A	10
Hum modulation	-dBc	>60
Power consumption	W	<28
Dimensions	mm	L x H x W, 261x98x166
Weight	Kg	3
Operating temperature	˚C	-40 to +55
Storage temperature	˚C	-40 to +70
Humidity	%	95% , non-condensing

Block Diagram



Features

- One output two way amplifier
- 870 MHz bandwidth
- -20dB test point
- Plug-in EQ & Pad for easy installation
- Power-doubling amplifier IC for high power output
- 10 Ampere Power Passing
- AGC optional
- Surge protection

Ordering Information

VL-SLE870 -- X -- X

Frequency :
4:42/54
5:55/70
6:65/85

Type :
VL-SLE870: two way
VL-SLE870S: forward only

Power supply :
A: with AGC
N: without AGC

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