LINE EXTENDER AMPLIFIER



The LEX80 is an advanced bi-directional amplifier typically deployed in the line portion of the RF network, providing RF signal gain with minimal distortions. It has an amplifier module with a power supply range 40-90Vac at 50/60Hz. Configurable as a single output device, LEX80 offers high gain, compatible plug-in accessories, two diplex filters, and an optional second output via a modular splitter or directional coupler. LEX80 amplifiers incorporate high quality push-pull and parallel GaAs hybrids to provide the highest output and lowest distortion levels possible. A regulated power supply along with a die casting aluminum alloy heat sink case provides the reliability required for operation in the most hostile environments. LEX80

has two test points, one for forward input and one for forward output, directly accessible from the housing cover, which simplifies the maintenance. It also has the optional accessories CTF and Therm for compensating the loss of cable caused by the change of temperature in both forward and return path.

Specifications

Forward Path				Return Path	General			
Pass band		54 ~ 870MHz		Pass band	5~42MHz	Power		60VAC (50/60Hz),
Return Loss		≥16dB		Return Loss	≥16dB	Power consumption		≤25W
Flatness		±0.75dB		Flatness	±0.75dB	AC current	@90V	0.28A
Gain* 38dB			Gain	24dB		@80V	0.31A	
Gain Adjustment		0dB to -20dB plug-in adjustable,		Gain Adjustment	0dB to -12dB plug-in adjustable,		@70V	0.35A
		1dB per step			1dB per step		@60V	0.41A
Equalizer		0dB to -18dB plug-in adjustable,		Equalizer	0dB to -12dB plug-in adjustable,		@50V	0.50A
		2dB per step			1dB per step		@40V	0.69A
Interstage Equalizer Slope 9±1dB				Test Points	-20±1dB	RF Connector		F
Noise Figure		9dB		RF Impedance	75Ω	Dimensions (L x W x H)		255 mm x 195 mm
Test Points		-20±1dB						x 120 mm
RF Impedance		75Ω				Weight		3.4Kgs
(79NTSC analog	jue chann	el loading with 320M	Hz compresse	ed data loading**)		Operating Te	emperature:	-20°C to +50°C
Reference frequency		870/550/54 MHz	870/550/54 MHz					
Output level		43/44/37 dBmV	46/48/44 dBmV					
Distortion	CTB	≤-72dBc	≤-63dBc					
	CSO	≤-72dBc	≤-68dBc					
	XMOD	≤-62dBc	≤-54dBc					

* Based on one single output. 34dB operation gain for two equal outputs ** QAM carriers are –6dB relative to the analog CW carriers

Order information

Model Number: LEX80-[A]-[B]-[C]-[D]-[E]-[F]-[G]-[H]												
A	<u>870</u> MHz B <u>WRP</u> : With	Return Path	С	2GA: 2 GaAs Forward Hybrids	D	<u>PH</u> : Philips/PDI Hybrids						
E	Diplex filter (MHz): <u>35/47</u> , <u>42/54</u> , <u>65</u>	/87	F	Gain Reverse (dB): 24	G	Power: <u>60</u> VAC <u>220</u> VAC						
Н	SP100 Splitter (2 equal outputs)	DC100-8	Coupler (-8dB for second output)									
	DC1 Coupler (1single output)	<u>DC100-10</u>	Coupler (-10dB for second output)									
		<u>DC100-12</u>	Coupler (-1	2dB for second output)								
Example: LEX80-870-WRP-2GA-PH-4254-22-60-SP100												

Line Extender 870MHz (2 equal outputs), incorporating 2 GaAs Philips/PDI hybrids forward path, with 1 Philips return path hybrid (22dB gain), 42/54 MHz diplex filters, and powered by 60Vac

Note: Specific customer options are available upon request.

In the interest of continued product improvement, photographic representations, written descriptions and specifications are subject to change without notice.

