

MLE300LE1A Line Extender Module 5-40/54-1002 MHz

Module only specifications unless noted

Parameter	Units	Forward	Reverse	Notes							
Pass Band	MHz	54-1002	5-40								
Amplifier Type	-	GaAsFET PD	Silicon								
Flatness	dB	+/-0.75	+/-0.5	1,2							
Minimum Full Gain	dB	41.8	26.2	3							
Operational Gain	dB	40.8	25.2	4							
Return Loss (typical)	dB	-16	-16	2							
Noise Figure	dB	7.5	6.5	5							
Test Points	dB	-30 (+/-1.5)	-30 (+/-1.5)	2							
Loop Isolation (40-54 MHz)	dB	Better than -35		5							
Hum Modulation @ 15 A	dBc	-60 (54-870 MHz) -58 (870-1002 MHz)	-60 (5-12 MHz) -65 (12-40 MHz)								
Distortion Measurements @ Rated Level											
Reference Frequencies	MHz	1002 / 870 / 750 / 550 / 54	T7-T12								
Output Levels	dBmV	49.5 / 48.5 / 47.7 / 45.2 / 36.5	35 (flat out)								
Channel Loading	NTSC	130	6	6							
CTB	dBc	-67	-84	7							
CSO (high side)	dBc	-77	-87	7							
Cross Modulation	dBc	-66	-78	7,8							
Powering Data											
DC Current Draw (maximum)	mA	800									
AC Bypass Current (continuous)	A	15									
AC Input Voltage Range	VAC	42-90									
		AC Voltage (quasi-square wave)									
		90	85	80	75	70	65	60	55	50	42
AC Current Draw (A)		0.34	0.35	0.38	0.40	0.44	0.48	0.55	0.63	0.73	0.99

Notes:

1. Measured with 22.5 dB of simulated cable.
2. Measured using an Input EQ = MLE1000-15, Interstage Slope Pad = MPBNP9A-05, and 0 dB plug-ins for all remaining forward and return locations.
3. Measured using an Interstage Slope Pad = MPBNP9A-05 and 0 dB plug-ins for all remaining forward and return locations.
4. Includes a 1 dB loss from the Input EQ and a 1 dB loss from the Return EQ.
5. Measured using 0 dB plug-ins for all forward and return locations.
6. Distortions with 130 NTSC analog channels (no digital).
7. Measured using an Input EQ = MLE1000-09, Interstage Slope Pad = MPBNP9A-05, and 0 dB plug-ins for all remaining forward and return locations.
8. X-mod (@ 15.75 KHz) specified using 100% synchronous modulation.

Accessories	
Factory Installed Plug-ins	Plug-in Series
Diplex Filters (not accessible thru the cover, field upgradeable)	MLE300XDF-01
Interstage Gain Pad = MPBNP9A-00	MPBNP9A-*
Interstage Slope Pad = MPBNP9A-05	MPBNP9A-*
Return Roll Corrector (not accessible thru the cover, field upgradeable)	MLE1202RRC
AC Power Pass Jumper = 18 AWG buss wire jumper	COI100101
Required Plug-ins	Plug-in Series
Input Pad	MPBNP9A-*
Input EQ	MLE1000-*
Return Output Pad	MPBNP9A-*
Return EQ	MPBN6REF42-*
Optional Plug-ins	Plug-in Series
Plug-in diplex filter options include 40/51, 42/54, 55/70, 65/86 and 85/105 MHz.	-

Line Extender Housing Upgrade Instructions		
Original LE Housing Specifications		
Housing Part Number	Frequency Range	Side-mounted Housing Test Points
5-LH	5-450 MHz	Yes
Upgrade Instructions:		
<ol style="list-style-type: none"> Always replace the LE housing input seizure assembly with part number 0910693-801. Always replace the LE housing output seizure assembly with part number 0910694-801. 		
Housing Part Number	Frequency Range	Side-mounted Housing Test Points
7-LH	5-870 MHz	No
7-LH/TP	5-870 MHz	Yes
Upgrade Instructions:		
<ol style="list-style-type: none"> Replace the LE housing input seizure assembly with part number 0910693-801 if the desired bandwidth is above 870 MHz. Replace the LE housing output seizure assembly with part number 0910694-801 if the desired bandwidth is above 870 MHz. 		
Housing Part Number	Frequency Range	Side-mounted Housing Test Points
9-LH	5-1000 MHz	No
Upgrade Instructions: Nothing needs to be done.		
Upgraded LE Housing Specifications		
Housing Part Number	Frequency Range	Side-mounted Housing Test Points
5-LH, 7-LH, 7-LH/TP	5-1000 MHz	No

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