

MLE300601A-4** .25 High Gain Network Amplifier 5-40/54-1002 MHz

Module only specifications unless noted

Standard RF Specifications				
Parameter	Units	Forward	Reverse	Notes
Pass Band	MHz	54-1002	5-40	
Amplifier Type	-	GaAsFET PD	Silicon	
Flatness	dB	54-950 MHz	+/-0.5	1,2
		950-1002 MHz		
Minimum Full Gain (AGC on)	dB	46.1	19	2
Operational Gain (AGC off)	dB	43	18	3
AGC Range @ 1002 MHz	dB	+2.1/-5.0	-	
Return Loss (typical)	dB	-16	-16	4
Noise Figure	dB	7.5	10.5	5
Test Points	dB	-20 (+/-0.75)	-20 (+/-0.5)	4
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)	
AC Bypass Current (continuous)	A	15		
DC Current Draw (maximum)	A	1.62		
Distortion Measurements @ Rated Level				
Reference Frequencies	MHz	1002 / 870 / 750 / 550 / 54	T7-T12	
Output Levels	dBmV	49.5 / 48.8 / 48 / 45.7 / 37	35 (flat out)	
Channel Loading	NTSC	130	6	6
CTB	dBc	-63	-88	2
CSO (high side)	dBc	-74	-85	2
Cross Modulation	dBc	-60	-77	2,7

Notes:

1. Measured with 17 dB of simulated cable.
2. Measured using an Interstage EQ = MLE1000-09, Secondary EQ = MLE1000-06, and 0 dB plug-ins for all remaining forward and return locations.
3. Includes a 1 dB loss from the Input EQ and a 1 dB loss from the Return EQ.
4. Measured using an Input EQ = MLE1000-15, Interstage EQ = MLE1000-09, Secondary EQ = MLE1000-06, and 0 dB plug-ins for all remaining forward and return locations.
5. Measured using a Secondary EQ = MLE1000-06 and 0 dB plug-ins for all remaining forward and return locations.
6. Distortions with 130 NTSC analog channels (no digital) and AGC off.
7. 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
Forward Roll Corrector (not accessible thru the cover, field upgradeable)	MLE1202FRC
Interstage Pad = MPBNP9A-00	MPBNP9A-*
Bode EQ = MLEBODE1000	MLEBODE1000
Response EQ (Debumper) = 18 AWG buss wire jumper	6EDB
Interstage EQ = MLE1000-09	MLE1000-*
AGC/MGC Module (available pilot frequencies: 427.25 and 499.25 MHz)	MLE300750-4** .25
Secondary EQ = MLE1000-06	MLE1000-*
Port 2 Output Pad = MPBNP9A-00	MPBNP9A-*
Port 3/4 Output Pad = MPBNP9A-00	MPBNP9A-*
Port 3/4 Output Selector = MPBNP9A-00	MPBNP9A-*
Ports 2, 3, and 4 Return Input Pads = MPBNP9A-00	MPBNP9A-*
Return Roll Corrector (not accessible thru the cover, field upgradeable)	MLE1202RRC
Return Output Pad = MPBNP9A-00	MPBNP9A-*
Fuse 1 (F1), Fuse 2 (F2), Fuse 3 (F3), Fuse 4 (F4) = 25 Amp Auto Fuse	0189940-25
170 V AC Crowbar Surge Protector (not accessible thru the cover)	MLE300601CB
Required Plug-ins	Plug-in Series
Input Pad	MPBNP9A-*
Input EQ	MLE1000-*
Return EQ	MPBN6REF42-*
Optional Plug-ins	Plug-in Series
2-Way Splitter	0911055-801
DC-8 Directional Coupler	2501158
DC-12 Directional Coupler	2501159
Plug-in diplex filter options include 40/51, 42/54, 55/70, 65/86 and 85/105 MHz.	-