

### MLE300GIMB-4XX.25 High Gain Mini-Bridger 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	+/-0.75	+/-0.5	1,2
Minimum Full Gain (AGC mode) Main and Aux 1 Ports Aux 2 Port	dB	48.1	18.7 21.7	1
Operational Gain (MGC mode) Main and Aux 1 Ports Aux 2 Port	dB	44	17.7 20.7	3,4
<b>Operational gain must not exceed 44 dB. Use Interstage padding as necessary.</b>				
AGC Range @ 1002 MHz	dB	+3.1/-4.0	-	
Return Loss (typical)	dB	-16	-16	5
Noise Figure @ 54 MHz 1002 MHz	dB	6.5 6.0	12.5	6
Test Points	dB	-30 (+/-1.0) Status Monitor -30 (+/-1.5)	-30 (+/-1.0)	5
Loop Isolation (40-54 MHz)	dB	Better than -35		6
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	1.64		
Distortion Measurements @ Rated Level				
Reference Frequencies	MHz	1002 / 870 / 750 / 550 / 54	T7-T12	
Output Levels	dBmV	50 / 49.1 / 47.5 / 45.5 / 37	35 (flat out)	
Channel Loading	NTSC	130	6	7
CTB	dBc	-63	-90	1
CSO (high side)	dBc	-74	-85	1
Cross Modulation	dBc	-60	-78	1

#### Notes:

1. Measured using an Interstage EQ = MLE1000-14, Main Interstage Pad = MPBNP10A-03, Aux 1/2 Interstage Pad = MPBNP10A-04, and 0 dB plug-ins for all remaining forward and return locations.
2. Measured with 17 dB of simulated cable.
3. Includes a 1 dB loss from the Input EQ and a 1 dB loss from the Return EQ.
4. When in MGC Mode, ensure there is at least 3.1 dB of reserved gain.
5. Measured using an Input EQ = MLE1000-15, Interstage EQ = MLE1000-14, Main Interstage Pad = MPBNP10A-03, Aux 1/2 Interstage Pad = MPBNP10A-04, and 0 dB plug-ins for all remaining forward and return locations.
6. Measured using a Main Interstage Pad = MPBNP10A-03, Aux 1/2 Interstage Pad = MPBNP10A-04, no forward/return roll correctors, and 0 dB plug-ins for all remaining forward and return locations.

7. Distortions with 130 NTSC analog channels (no digital) and in MGC mode.

<b>Accessories</b>	
<b>Factory Installed Plug-ins</b>	<b>Plug-in Series</b>
Diplex Filters (not accessible thru the cover, field upgradeable)	MLE300XDF-01
Forward Roll Corrector (not accessible thru the cover, field upgradeable)	MLE1202FRC
Response EQ (Debumper) = 18 AWG buss wire jumper	6EDB
Interstage EQ = MLE1000-14	MLE1000
AGC/MGC Module (available pilot frequencies: 427.25 and 499.25 MHz)	MLE300SA-AGC-4XX.25
Interstage Pad = MPBNP10A-00	MPBNP10A
Main Interstage Pad = MPBNP10A-03	MPBNP10A
Aux 1/2 Interstage Pad = MPBNP10A-04	MPBNP10A
Aux 1/2 Signal Director = MPBNP10A-00	MPBNP10A
Main Return Input Pad = MPBNP10A-00	MPBNP10A
Aux 1 Return Input Pad = MPBNP10A-00	MPBNP10A
Aux 2 Return Input Pad = MPBNP10A-03	MPBNP10A
Return Roll Corrector (not accessible thru the cover, field upgradeable)	MLE1202RRC
Low Pass Filter (not accessible thru the cover, field upgradeable)	MLERF100104
FUSE 1, FUSE 2, FUSE 3, FUSE 4 = 25 Amp Auto Fuse	0189940-25
230 V AC Crowbar Surge Protector	MLE300SATCB
<b>Required Plug-ins</b>	<b>Plug-in Series</b>
Input Pad	MPBNP10A
Input Equalizer	MLE1000
Return Output Pad	MPBNP10A
Return Equalizer	MPBN6REF42
<b>Optional Plug-ins</b>	<b>Plug-in Series</b>
Plug-in Pads for the AGC/MGC Module	MGIP
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.	-