

## MLE3006B Forward Bridger Amplifier 54-750 MHz

Module only specifications unless noted

Parameter	Test Conditions		Value	Units	Notes
Technology	-		GaAsFET PD	-	-
Bandwidth	-		54-750	MHz	-
Response Flatness	-		+/-0.75	dB	1,2,3
Minimum Full Gain	-		30.5	dB	2,4
Gain Control Range	-		7.0	dB	4,5
Slope Control Range (cable @ 750 MHz)	-		0 to -4	dB	4
Input Return Loss (75 ohm)	Freq	54-75 MHz	-16	dB	6
		75-150 MHz	-14		
		150-690 MHz	-16		
		690-750 MHz	-14		
Output Return Loss (75 ohm)	Freq	54-520 MHz	-16	dB	6
		520-750 MHz	-14 (+/-1.0)		
Noise Figure	-		12	dB	3
24 Volt DC Current Draw (max)	-		800	mA	2
<b>Distortion Measurements @ Rated Level</b>					
Rated Output Levels	-		40/48	dBmV	2,3,7
Number of Channels	-		110	-	7
Rated Operating Gain	-		30	dB	4
Composite Triple Beat	-		-66	dBc	2,7
Composite Second Order	-		-65	dBc	2,7
Carrier to Noise	-		56	dBc	2,7
Cross Modulation	-		-65	dBc	2,7

**Notes:**

1. Measured in a 9-TH housing and an MLE3008MC chassis.
2. Measurements are done after the unit's temperature has stabilized. Properly heat sink the module if it will be powered for more than five minutes.
3. Measured at rated gain and slope with a Forward Roll Corrector = MLE1202FRC and an Interstage Pad = 18 AWG buss wire jumper.
4. Measured from the trunk auxiliary output connector of the MLE3008MC chassis to the station output, including a 7-S-1A splitter. Installed in the bridger module is a Forward Roll Corrector = MLE1202FRC and an Interstage Pad = 18 AWG buss wire jumper
5. Additional gain range is available by using plug-in MPBNP9A-XX series attenuators.
6. Measured at rated gain and slope with a Forward Roll Corrector = MLE1202FRC and an Interstage Pad = MPBNP9A-03.
7. Standard channels sloped as indicated by dual levels, per NCTA test methods.

Accessories	
Factory Installed Plug-ins	Plug-in Series
Forward Roll Corrector (field upgradeable)  ♦ <b>Note:</b> Only remove if changing the frequency split of the diplex filters on the MLE3008MC chassis.	MLE1202FRC
Interstage Pad = 18 AWG buss wire jumper	MPBNP9A

