

BROADBAND LIMITING AMPLIFIERS

MLA 2300-000 SERIES

DESCRIPTION

This series of broadband limiting amplifiers offers temperature compensated performance over a wide variety of octave and multi-octave frequency bands. These amplifiers have a wide range of input and output power options and are optimised for output power flatness and harmonic distortion.

SPECIFICATIONS (guaranteed -55°C to +95°C)

Frequency Range (GHz)	Saturated Output Power (dBm)		Saturated Power Flatness (dB) Max.	Input Power for Saturation (dBm)		Noise Figure (dB) Max.	Input and Output VSWR Max.	DC Current at +15V (mA)	Package Styles	Part Number
	Min.	Max.		Min.	Max.					
2.0 - 8.0	+14	+17	±1.0	-10	5.0	2.0	250	B1, B3	MLA 2340-101	
				-20	5.0	2.0	300	B1, B3	MLA 2340-102	
				-30	5.0	2.0	350	C1, C3	MLA 2340-103	
				-10	5.0	2.0	300	B1, B3	MLA 2340-201	
				-20	5.0	2.0	350	B1, B3	MLA 2340-202	
				-30	5.0	2.0	400	C1, C3	MLA 2340-203	
	+17	+20	±1.0	-10	5.0	2.0	350	B1, B3	MLA 2340-301	
				-20	5.0	2.0	400	B1, B3	MLA 2340-302	
				-30	5.0	2.0	450	C1, C3	MLA 2340-303	
				-10	6.0	2.0	300	C1, C2	MLA 2350-101	
				-20	6.0	2.0	350	C1, C2	MLA 2350-102	
				-30	6.0	2.0	400	D1, D2	MLA 2350-103	
6.0 - 12.0	+14	+17	±1.0	-10	6.0	2.0	350	C1, C2	MLA 2350-201	
				-20	6.0	2.0	400	D1, D2	MLA 2350-202	
				-30	6.0	2.0	450	D1, D2	MLA 2350-203	
				-10	6.0	2.0	500	C1, C2	MLA 2350-301	
				-20	6.0	2.0	550	D1, D2	MLA 2350-302	
				-30	6.0	2.0	600	D1, D2	MLA 2350-303	
	+17	+20	±1.0	-10	8.0	2.0	350	C1, C2	MLA 2360-101	
				-20	8.0	2.0	400	C1, C2	MLA 2360-102	
				-30	8.0	2.0	450	D1, D2	MLA 2360-103	
				-10	8.0	2.0	400	C1, C2	MLA 2360-201	
				-20	8.0	2.0	450	D1, D2	MLA 2360-202	
				-30	8.0	2.0	500	D1, D2	MLA 2360-203	
12.0 - 18.0	+14	+17	±1.0	-10	8.0	2.0	550	C1, C2	MLA 2360-301	
				-20	8.0	2.0	600	D1, D2	MLA 2360-302	
				-30	8.0	2.0	650	D1, D2	MLA 2360-303	
				-10	8.0	2.0	350	C1, C2	MLA 2370-101	
				-20	8.0	2.0	400	C1, C2	MLA 2370-102	
				-30	8.0	2.0	450	D1, D2	MLA 2370-103	
	+17	+20	±1.0	-10	8.0	2.0	400	C1, C2	MLA 2370-201	
				-20	8.0	2.0	450	D1, D2	MLA 2370-202	
				-30	8.0	2.0	500	D1, D2	MLA 2370-203	
				-10	8.0	2.0	550	C1, C2	MLA 2370-301	
				-20	8.0	2.0	600	D1, D2	MLA 2370-302	
				-30	8.0	2.0	650	D1, D2	MLA 2370-303	

NOTES

- 1) Amplifiers saturating from lower input powers are available in non-standard outlines, please contact the factory.
- 2) Power output for 1dB gain compression is typically 4dB below saturated output power.
- 3) Maximum input power without damage +20dBm (CW)
- 4) Harmonic outputs are typically -12dBc
- 5) All amplifiers have reverse polarity and over voltage power supply protection
- 6) Alternative +8V and +12V power supplies are available on selected amplifiers, please contact the factory
- 7) All amplifiers are unconditionally stable for any input or output VSWR, any phase
- 8) Case operating temperature -55°C to +95°C
Storage temperature -55°C to +125°C
- 9) Amplifiers are supplied in standard package styles (A1, B1, C1, D1) unless miniature option (A2, B2 etc) is specified.

M/A-COM Ltd, Humphrys Road, Dunstable, Bedfordshire, LU5 4SX United Kingdom.

Europe: (44) 1344 869595

North America: 800 366 2266

Asia Pacific: (81) 3 3226 1671