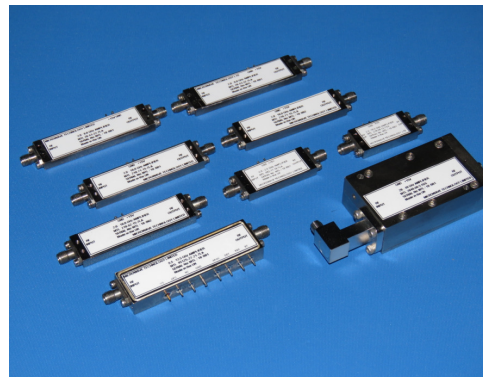


MICROWAVE TECHNOLOGY

BROADBAND LIMITING AMPLIFIER



The MTL-618-82-17-8LA is a broadband solid state limiting amplifier which operates over the frequency range 6 to 18 GHz. The amplifier is offered in a low profile mechanical housing which incorporates integral DC regulation and employs GaAs PHEMT devices. The amplifier is designed and manufactured for high reliability and consistent unit to unit performance.

Electrical specification specified at 25 °C case temperature

SPECIFICATION	MIN	TYP	MAX	UNITS
Frequency Range	6.0		18.0	GHz
Small Signal Gain	82			dB
Gain Flatness			±2.5	dB
Noise Figure			8.0	dB
Saturated output power	17			dBm
Input power range for output saturated power	-60		+10	dBm
Input VSWR			2:1	
Output VSWR			2:1	
Harmonics (RF input power range of -60 to +10 dBm)			8	dBc
Input DC voltage		15		V
DC current consumption		1000		mA

(Specification subject to changes without notice)

Absolute Maximum Ratings

Parameter	Value/Type	Units
Input DC voltage	20	V
RF Input power	+12	dBm
Operating temperature	-40 to +85	°C
Storage temperature	-55 to +95	°C

Mechanical Specifications

Parameter	Value/Type	Units	Limits
Dimensions –excluding RF connectors and heat sink	95(L) x 25(W) x 14(H)	mm	
Weight	100	Grams	Max
RF Connectors Input/Output	SMA		
DC connector	Solder in Filter		
Cooling	External Heat Sink Required		