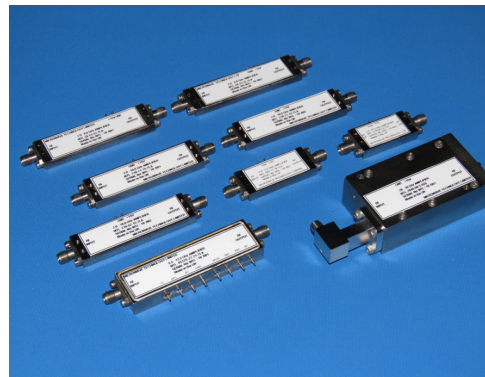


BROADBAND AMPLIFIER WITH INTEGRATED LIMITER



The MTL-618-25-18-5SSL is a broadband solid state limiting amplifier which operates over the frequency range 6 to 18 GHz with an integrate limiter at the input of the amplifier. 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	25			dB
Gain Flatness			±1.5	dB
Noise Figure			5.0	dB
Output power @ 1dB	18			dBm
Maximum CW input power			3	Watts
Maximum peak pulse input power			100	Watts
Input VSWR			2:1	
Output VSWR			2:1	
Input DC voltage		15		V
DC current consumption		400		mA

(Specification subject to changes without notice)

Absolute Maximum Ratings

Parameter	Value/Type	Units
Input DC voltage	20	V
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	46(L) x 14(W) x 7(H)	mm	
Weight	30	Grams	Max
RF Connectors Input/Output	SMA		
DC connector	Solder in Filter		
Cooling	External Heat Sink Required		