

BROADBAND LINEAR AMPLIFIER



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The MTL-218-35-10-7SS is a broadband solid state linear amplifier which operates over the frequency range 2 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	2.0		18.0	GHz
Small Signal Gain	35			dB
Gain Flatness			±1.0	dB
Noise Figure			7.0	dB
Output power at 1dB gain compression	10			dBm
Input VSWR			2:1	
Output VSWR			2:1	
Input DC voltage		15		V
DC current consumption		250		mA

(Specification subject to changes without notice)

Absolute Maximum Ratings

Parameter	Value/Type	Units
Input DC voltage	20	V
RF Input power	+5	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	34(L) x 17(W) x 7(H)	mm	
Weight	20	Grams	Max
RF Connectors Input/Output	SMA		
DC connector	Solder in Filter		
Cooling	External Heat Sink Required		