



WIDE BAND LIMITING AMPLIFIER

MTB0812R3505M

FEATURES

- Wide Bandwidth
- Low Power Consumption
- Low Noise Figure
- Miniature Sizes for drop-In Assembly
- Rugged/compact Thin Film Construction

APPLICATIONS

- Microwave Radio & VSAT
- Military & Space
- Test Instrumentation
- Fiber Optics



ELECTRICAL SPECIFICATIONS@25°C:

Parameter	Min	Typical	Max	Units
Frequency Range	8		12	GHz
Input power Range	-35		+5	dBm
Noise Figure			6.0	dB
Saturated Power output	12		17	dBm
output Power Flatness			±1.8	dB
harmonic output		-10		dBc
VSWR Input/output			2:1	Ratio
Pulse response Overshoot			0.5	dB
Pulse response Recovery time		50		ns
Pulse response Settling time		50		ns
Pulse response Rise time		20		ns
DC Power Supply		12		Volt
Current		400		mA

ENVIRONMENTAL RATINGS:

Parameter	Min	Typical	Max	Units
Max Input power				dBm
Operating Temperature	-40		+85	°C
Non-operating Temperature	-55		125	°C
Relative humidity (non-condensing)		95		%
Altitude (MIL-STD-810F)	10000		30000	feet
Shock / Vibration (MIL-STD-810F)		Airbone		

MECHANICAL SPECIFICATIONS:

Parameter	Valus	Limits	Units
Dimensions	44.7*29.5*17	Max	Millimeter
Weight	50	Max	gram
RF Connectors Input	SMA-F		
RF Connectors output	SMA-F		
Impedance	50		ohms

OUTLINE DRAWING(mm):

