



WIDE BAND MEDIUM POWER AMPLIFIER

MBM2125G2922

FEATURES

- Wide Bandwidth
- Low Power Consumption
- Low Noise Figure
- Miniature Sizes, Field Removable connector
- Compact/Rugged Thin-Film Construction

APPLICATIONS

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



ELECTRICAL SPECIFICATIONS@25°C:

Parameter	Min	Typical	Max	Units
Frequency Range	21		25	GHz
Small Signal Gain	29			dB
Small Signal Gain Flatness			±2	dB
Noise Figure			6	dB
Output Power 1dB compression	22			dBm
IP3				dBm
VSWR			2:1	Ratio
DC Power Supply		12		Volt
Current		400		mA

Note:Gain variation over temperature:±2.5dB.

ENVIRONMENTAL RATINGS:

Parameter	Min	Typical	Max	Units
Max Input power			+20	dBm
Operating Temperature	0		+60	°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	Value	Limits	Units
Dimensions	44.7*29.5*17		Millimeter
Weight	50		gram
RF Connectors Input	SMA-F		
RF Connectors output	SMA-F		
Impedance	50		ohms

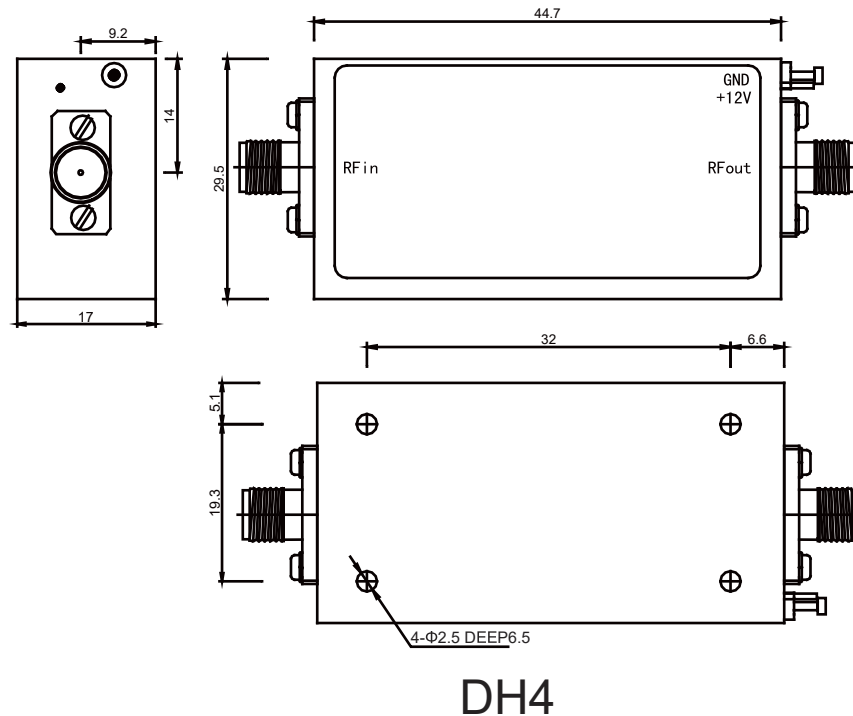
Note:miniature size,drop-in ,SMT and customized specification is also available



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OUTLINE DRAWING(mm):



DH4

TEST DATA:

characteristic	specification	test data
Part number	MBM2125G2922	MBM2125G2922
S/N		1
Frequency range	21-25GHz	21-25GHz
Small Signal Gain	29dB	34.8dB
Small Signal Gain Flatness	±2	±1.74
Noise Figure	6dB	4.1dB
Output Power 1dB compression	23dBm	23dBm
VSWR Input	2.0:1	1.8:1
DC Power Supply	12V	12V
Current	400mA	440mA