

USMC7000 Broadband Amplifier

100 KHz - 7 GHz



- **MULTIPLE APPLICATIONS**

Electromagnetic Compatibility (EMC) testing
Instrumentation
Antenna field measurements
Communication systems

- **BROADBAND PERFORMANCE**

32 dB of flat gain from 100 KHz to 7 GHz

- **WIDELY VERSATILE**

Wide bandwidth allows for one preamplifier to be used with most near-field probes. Power supply with interchangeable plugs suitable for most countries in the world.

- **READY FOR THE TOUGHEST ENVIRONMENT**

Wide operating temperature range.
RF and dc input protected against ESD.
Non-destructive reverse polarity protection.

The USMC7000 broadband amplifiers by US Microwave Laboratories offer exceptional performance at a very competitive price. Covering the bandwidth between 100 KHz and 7 GHz, they provide 32 dB of flat gain and low noise figure in a small and convenient package.

These amplifiers are ideal for Electromagnetic Compatibility (EMC) testing and certification and can be used as probe amplifiers. The unit is supplied with a wall-mount AC adapter with interchangeable plugs that can be used in most countries in the world.

Designed and manufactured in the U.S.A., the USMC7000 conforms to the European RoHS requirements and is ECCN EAR99.



RF & microwave components and equipment

All our products are designed and manufactured in the U.S.A.



www.usmicrolabs.com info@usmicrolabs.com

7412 Summerfield Rd. #303, Summerfield, NC 27358, USA

Phone: (+1) 336-582-0603

Specifications subject to change without notice

Electrical specifications

	USMC7000			UNIT
	Min	Typ	Max	
Frequency range	0.1		7	GHz
Nominal gain	31	32	33	dB
Gain flatness		±1.5		dB
Input & output impedance		50		ohm
Input VSWR			2.5:1	
Output VSWR			2.5:1	
P1dB	5	8	10	dBm
Noise figure	3.8	4.5	6	dB
Operating supply voltage	11.5	12	15	V dc
Current consumption		150		mA
Reverse polarity protection	Yes, non destructive			
Maximum input/ reverse output power			15	dBm
Maximum input/output dc voltage			5	V dc

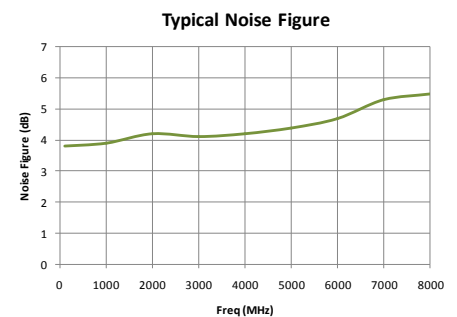
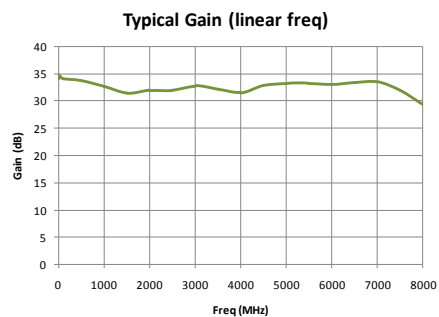
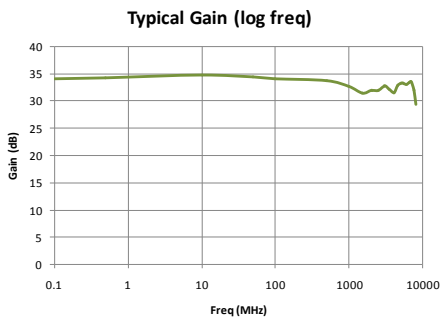
Mechanical and environmental specifications

	USMC18400A	UNIT
Operating temperature	-10 to 60	°C
DC supply connector	2.5 mm center pin	
RF connectors	SMA female	
Dimensions (incl. connectors and feet)	4.2 (107) w x 5.5 (140) d x 2.3 (58.5) h	inches (mm)
Weight	1.3 (590)	lb (g)

Supplied accessories

External ac adaptor: 90 to 264 V ac, 47 to 63 Hz; Interchangeable plugs for most countries.

Typical Performance



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