BSWA MAA*11



MA411 1/4" Preamplifier

Features:

Suitable for 1/4" pre-polarized microphone

ICCP power supply preamplifier

Frequency response: 2.5 Hz ~ 70 kHz (±0.2 dB)

Attenuation: 0.3 dB (typ.)

Connector: SMB (MA411A) or 10-32 (MA411B)

Optional TEDS (IEEE.1451.4)

Applications:

- Common acoustic measurement
- Environmental, industrial, traffic and other acoustic measurement



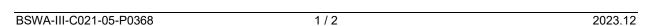
MA411A/B is 1/4" ICCP power supply preamplifier developed by BSWA, which is suitable for MP series 1/4" pre-polarized microphones. It is a low-noise and high-quality preamplifier that can be used in a variety of acoustic applications. MA411A is SMB connector and MA411B is 10-32 connector.

The main function of the preamplifier is impedance change, since the output impedance of the microphone is above $G\Omega$, it cannot be directly connected to the common data acquisition equipment. The high input impedance and low output impedance of the preamplifier can reduce the output impedance of the microphone to less than $100~\Omega$.

MA411A/B does not provide polarization voltage, so it is only applicable to pre-polarized microphone. The power supply mode named ICCP (Integrated constant current power) can operate on a constant current power supply and give output signals in the form of voltage modulation on the coaxial cable. This kind of power supply mode can keep a very low signal attenuation even using a long cable. The MC1xx series power supply conditioner is required.

MA411A/B can choose to supply with TEDS to support read microphone information directly by data acquisition equipment, including microphone model, serial number, sensitivity, etc. BSWA TEDS microphone supports the IEEE 1451.4 standard. The version of 0.9 is used by default to be compatible with more data acquisition equipment. The version of 1.0 can also be selected according to user's requirements.

技术参数			
Туре		MA411A	MA411B
Diameter		1/4"	
Polarization Voltage Support		0V (Prepolarized)	
Frequency Response (Hz) (±0.2 dB)		2.5 ~ 70 k	
Attenuation (dB)		0.3 (typ.)	
Maximum Output Voltage (Vp)		±8	
Self-generated	A-weighted	<3 μV (2.5 μV typ.)	
Noise	20 Hz ~ 20 kHz	<10 μV (6 μV typ.)	
Input Impedance (GΩ ∥ pF)		15 0.4	
Output Impedance (Ω)		<30	
Power Supply		ICCP (2mA ~ 20mA, 4mA typ.)	
DC Bias Voltage (V)		12±2	
Operating Temperature Range (°C)		-30 ~ 80	





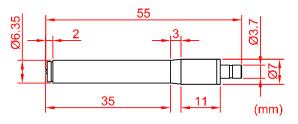
Product Brief

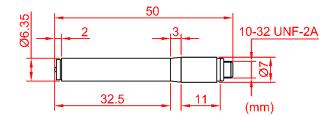
© BSWA TECH. All rights reserved

Operating Humidity Range (%RH)	0 ~ 95	
Dimensions (mm)	Ø7 × 55	Ø7 × 50
Mounting Thread for Microphone	5.7 mm-60 UNS	
Output Connector	SMB	10-32
Weight (g)	5.8	5.3
TEDS	Optional, IEEE 1451.4 compliant (default v0.9, optional v1.0)	

Note: Unless specified otherwise, all values were measured at 23 °C, 101.3 kPa, 50 %RH by using 3 meters coaxial cable, 4 mA / 24 V power supply and microphone capacitance of 15 pF.

Dimensions





MA411A (Left), MA411B (Right)

BSWA Technology Co., Ltd. Room 1003, North Ring Center, No.18 Yumin Road, Xicheng District, Beijing 100029, China • Tel: 86-10-5128 5118 • Fax: 86-10-8225 1626 • E-mail: info@bswa.com.cn • URL: www.bswa-tech.com Copyright © BSWA Technology Co., Ltd. • Content is subject to change without notice.

