



## MP471 Microphone

### Features:

- 1/4-inch Pressure-field microphone
- Sensitivity (@250 Hz) : 2 mV/Pa ( $\pm 2$  dB)
- Frequency Range: 10 Hz ~ 40 kHz
- Dynamic Range: 45 dBA ~ 168 dB
- Polarization: Prepolarization
- Pressure Equalization: Rear vent
- Suitable for 1/4-inch preamplifier with ICCP power supply
- Optional TEDS (IEEE.1451.4)



### Applications:

- Acoustic measurement in closed couplers or close to reflective surface

#### Introduction

**MP471** is a 1/4-inch pressure-field microphone developed by BSWA. According IEC61672 Class 1 standard.

**MP471** is prepolarized microphone without external polarization voltage, suitable for preamplifier with ICCP power supply such MA series (optional TEDS).

**MP471** is pressure-field microphone which measure the pressure on membrane directly, should be used for measurement in closed couplers or close to reflective surface. Pressure-field microphone can also be used for free-field and random-incidence measurements under the 10000 Hz. The random-incidence measurements not be mentioned in most countries and regions standards except ANSI. Customers can choose diffuse-field microphone of BSWA when making measurements according to ANSI standards.

#### Specifications

Sound Field Type	Pressure-field
Diameter	1/4"
Level (IEC61672)	Class 1
Frequency Response Range (Hz)	10 ~ 40k
Open-circuit Sensitivity@250 Hz (mV/Pa) ( $\pm 2$ dB)	2
Dynamic Range (dBA ~ dB)	45 ~ 168
Base Noise (dBA)	< 45
Pressure Equalization	Rear vent
Operating Temperature Range ( $^{\circ}$ C)	-30 ~ 80
Operating Humidity Range (RH)	0 ~ 98%
Capacitance (pF)	6
Equivalent Volume of Front Space@250 Hz (mm <sup>3</sup> )	0.6
Temperature Coefficient (dB/ $^{\circ}$ C)	-0.02
Humidity Coefficient (dB/%RH)	0.003
Pressure Coefficient (250 Hz)(dB/kPa)	-0.007
Dimensions	IEC 61094—4 Type WS3



Mounting Thread for Preampfier	M 5.7 mm × 60 UNS
Preampfier Type	MA401

