



MP281 Microphone

Features:

- 1/2-inch Pressure-field microphone
- Sensitivity (@250 Hz) :40 mV/Pa (± 2 dB)
- Frequency Range: 6 Hz ~ 12.5k Hz
- Dynamic Range: 17 dBA ~ 146 dB
- Polarization: Prepolarization
- Pressure Equalization: Rear vent
- Suitable for 1/2-inch preamplifier with ICCP power supply
- Optional TEDS (IEEE.1451.4)



Applications:

- Acoustic measurement in closed couplers or close to reflective surface
- Random-incidence measurements according to ANSI standard

Introduction

MP281 is a 1/2-inch diffuse-field microphone developed by BSWA. According to ANSI Class 1 standard.

MP281 is prepolarized microphone without external polarization voltage, suitable for preamplifier with ICCP power supply such MA series (optional TEDS).

MP281 is diffuse-field microphone can be used in closed couplers, ear simulator, nearby reflective surface and random-incidence measurements refer to ANSI standard.

Specifications

| | |
|---|------------------------|
| Sound Field Type | Diffuse-field |
| Diameter | 1/2 |
| Level (IEC61672) | ANSI Class 1 |
| Frequency Response Range (Hz) | 6 ~ 12.5k |
| Open-circuit Sensitivity@250 Hz (mV/Pa) (± 2 dB) | 40 |
| Dynamic Range (dBA ~ dB) | 17 ~ 146 |
| Base Noise (dBA) | < 16 |
| Pressure Equalization | Rear vent |
| Operating Temperature Range ($^{\circ}$ C) | -30 ~ 80 |
| Operating Humidity Range (RH) | 0 ~ 98% |
| Capacitance (pF) | 16 |
| Equivalent Volume of Front Space@250 Hz (mm^3) | 46 |
| Temperature Coefficient (dB/ $^{\circ}$ C) | -0.012 |
| Humidity Coefficient (dB/%RH) | 0.003 |
| Pressure Coefficient (250 Hz)(dB/kPa) | -0.004 |
| Dimensions | IEC 61094 – 4 Type WS2 |
| Mounting Thread for Preamplifier | M11.7 – 60UNS |
| Preamplifier Type | MA231/ MA221/ MA231T |