



MM 310

Proven design, exceptional build quality and performance stability, this measurement microphone takes it higher, 100kHz! The MM 310 serves many applications: for R&D, in arrays, in production and in fact wherever high frequency data is required. Although designed for on-axis measurement, it is also a truly multi-sound field solution for frequencies up to 20kHz, returning valid results for both pressure and diffuse sound fields.

- Free-field
- IEPE/CCP
- 20 Hz to 100 kHz
- 36 dBA to 158 dB
- TEDS acc IEEE 1451
- MTG Calibrator 5010 recommended with ¼" adaptor

TRANSDUCER TYPE	Capacitive pressure transducer, acc. WS3F (DIN EN IEC 61094-4)
SENSITIVITY	3,5 mV/Pa
SENSITIVITY	-49 dB \pm 1,5 dB re 1V/Pa
CORRECTION FREE-FIELD AT 1 KHZ	0 dB
RANDOM INCIDENCE AT 1 KHZ	0 dB
PRINCIPAL AXIS	microphone axis
FREQUENCY RANGE OF THE FREE FIELD RESPONSE	5 Hz to 100 kHz (\pm 2 dB)
POLARIZATION VOLTAGE	0 V
MAX. SPL FOR 3% THD AT 1 KHZ	158 dB
OUTPUT VOLTAGE	\leq 8,2 Veff
OUTPUT IMPEDANCE	< 100 Ohm
NOM. LOAD IMPEDANCE	100 kOhm
CURRENT CONSUMPTION	2 mA to 10 mA, nom. 4
TRANSDUCER EXCITATION VOLTAGE	mA UL 24 V DC to 30 V DC
TIME FOR POWER UP	1 min.
INHERENT NOISE	36 dBA

INFLUENCE OF MAGNETIC FIELD 80 A/M, 50 HZ		
INFLUENCE OF VIBRATION 1 M/S2		
OPERATING TEMPERATURE RANGE ≤ ± 0,5 DB	-25 °C to +100 °C	
MAIN AMBIENT TEMPERATURE COEFFICIENT	≤ 0,01 dB/K	
MAIN AMBIENT PRESSURE COEFFICIENT	1×10-5 dB/Pa	
TEMPERATURE LIMITS	-50 °C to +100 °C	
HUMIDITY LIMITS	r.H. < 100%, absence of condensation	
DIAMETER	WITH PROTECTION GRID	6,35 mm ± 0,02 mm
	WITHOUT PROTECTION GRID	7,0 mm ± 0,02 mm
LENGTH		
WEIGHT		
PREAMPLIFIER THREAD	5,7 mm 60 UNS	
PROTECTION GRID THREAD	6,35 mm 60 UNS	
PLUG	Microdot UNF 10-32	
MICROPHONE IDENTIFICATION MEMORY	256-Bit 1-Wire™ EEPROM (DS 2430 AP)	

ABOUT MICROTECH GEFELL

Microtech Gefell designs, manufactures and supplies microphones and acoustic systems. Founded by Georg Neumann in 1928, Microtech Gefell is more than just a microphone – it is over 90 years of engineering excellence that combines tradition with innovation. MTG products have earned a worldwide reputation amongst professional users as precise and reliable acoustic measurement tools for all industries, including environmental applications, automotive, aerospace and research and development.

AcSoft is proud to be MTG's distributor in the UK.

