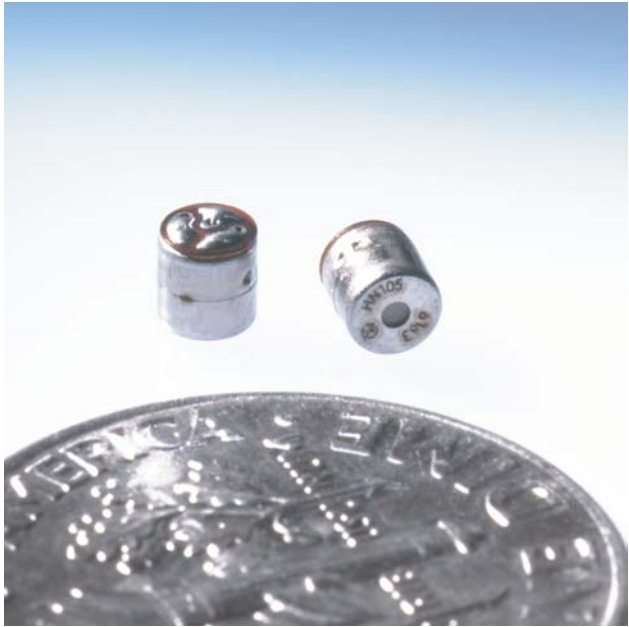
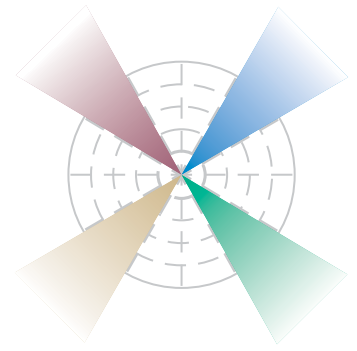


FG Series Microphones



Actual Size

Product Features

- World's Smallest - Proven reliability in demanding applications
- Broadband
- Ultrasonic Performance
- High Sensitivity
- Low Vibration Sensitivity
- Available with Assembled Cables or Wires

The smallest microphone in the World! The FG microphone has outstanding sensitivity and broadband response. At 1/10 inch, the cylindrical FG is popular for surveillance, pro audio, and instrumentation. It is available with or without a sound port-tube, and is available with cable pre-assembled.

Please note: Electrical contacts are made via solder pads. Please see Knowles Technical Bulletin TB4 "Soldering Transducer Leads for details"



FG Series Microphone Specifications

Electro-Acoustic

Supply Voltage Range	0.9 to 1.6VDC
Current Drain @ 1.3VDC	24µA typical, 50µA maximum
Frequency Response/Sensitivity	Displayed on chart
Sensitivity Tolerance	± 3dB @ 1kHz
Dynamic Output Impedance	2.8 to 6.8kΩ, 4.4 typical
DC Output Voltage Range	0.2 to 0.7VDC, 0.5VDC typical
Power Supply Feedthrough Attenuation	23dB typical (output-referred)
Input-Referred Self-Noise Level (A-weighted, 1kHz reference)	27dB typical, 30dB maximum
Output Self-Noise	-100dBV maximum, A-weighted
Acoustic Polarity	Increased pressure at sound inlet causes a positive-going voltage to appear at the output terminal, relative to the negative terminal.

Environmental

Operating Temperature	-17 to 63°C
Storage Temperature	-40 to 63°C
Humidity Coefficient of Sensitivity	0.06dB/%RH typical, non-condensing
Vibration Sensitivity	30dB SPL maximum @ 1g acceleration, non-acoustic, SPL equivalent, input-referred at 1kHz sensitivity
ESD Tolerance	MIL-STD-750 Class 1 rating EOS/ESD-S5.1-1993 Class 2 rating
RF Immunity	Integrated RFI suppression filters

Mechanical

Weight	0.08 grams
Case Material	Type 305 stainless steel
Solder Content	Sn63Pb37

Optional Soldering Fixture

Base	ET-3042
Nest Plate	ET-814



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1151 Maplewood Drive
Itasca, IL 60143 U.S.A.
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West Sussex, RT15 9TT
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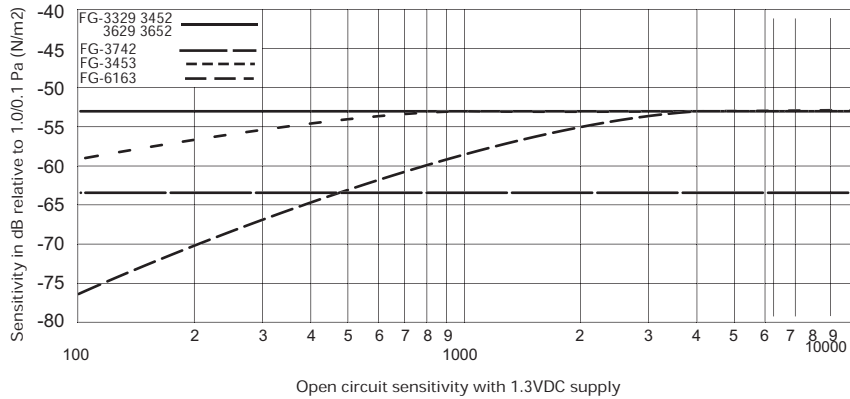
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Republic of China
Phone: 886-2-8919-1799
Fax: 886-2-8919-1798

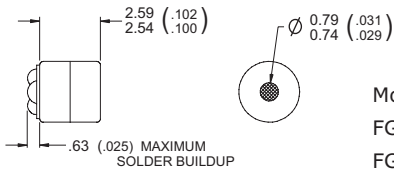
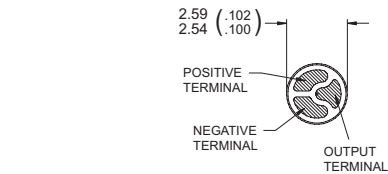
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FG Series Microphone Specifications

Frequency Response

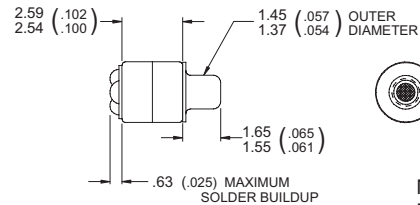
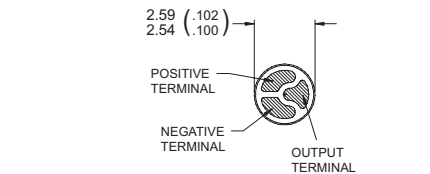


Outline Drawings



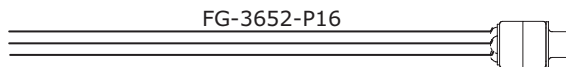
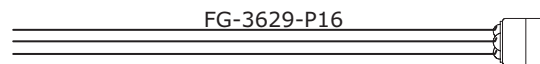
 *Terminal layout for FG-3629-CX

- Models**
 FG-3329-C
 FG-3453-C
 FG-3742-C
 FG-3629-CX*
 FG-6163-C



Models
 FG-3652-CX

Models with 1 inch flexible lead wire attached (36 AWG)



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