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## MX153 -- Earset Headworn Microphone

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### General Description

The Shure Microflex® MX153 is a professional subminiature earset microphone ideal for speech and other applications requiring low-profile discreet placement where improved gain before feedback over lavalier microphones is desired. Delivering exceptional speech clarity, the MX153 is ideal for corporate presentations, houses of worship, A/V conferencing and live sound reinforcement. Additionally, CommShield® Technology offers superior RF immunity from cellular devices and digital bodypack transmitters. Available in three color options and direct TA4F connectivity to Shure bodypacks, the MX153 provides outstanding clarity in an extremely comfortable, over the ear design.

### Features

- Subminiature, omnidirectional cartridge offers superior speech clarity and enhanced plosive protection with no proximity effect
- Terminated with TQG/TA4F connector for direct connectivity to Shure wireless bodypack transmitters
- Ultra-lightweight, comfortable, flexible design is stable and easy to place over either ear
- CommShield® Technology guards against interference from cellular RF devices and digital bodypack transmitters
- Kevlar® reinforced, soft flex cable
- Matte black, tan, and cocoa color options available
- Includes protective storage pouch, 3 windscreens, and collar clip

### Model Variations

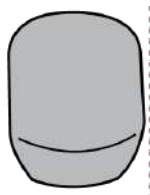
MX153B/O-TQG	Black
MX153T/O-TQG	Tan
MX153C/O-TQG	Cocoa

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### Windscreen

The furnished windscreen provides plosive and wind protection.

- Fit windscreen over cartridge.
- To remove, simply lift windscreen over capsule.



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## Using With Other Bodypack Transmitters

When connecting the microphone to anything other than a Shure wireless bodypack, make sure the device provides a regulated +5 V DC (130  $\mu$ A minimum).

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## Optional XLR Compatibility

To connect the MX153 earset to an XLR microphone input, use the RK100PK preamplifier (see Optional Accessories).

## Phantom Power

The RK100PK preamplifier requires phantom power and performs best with a 48 Vdc supply (IEC-61938). However, it will operate with slightly decreased headroom and sensitivity with supplies as low as 11 Vdc.

Most modern mixers provide phantom power. You must use a **balanced** microphone cable: XLR-to-XLR or XLR-to-TRS.

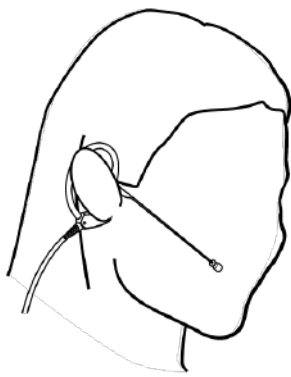
## RFI Filtering

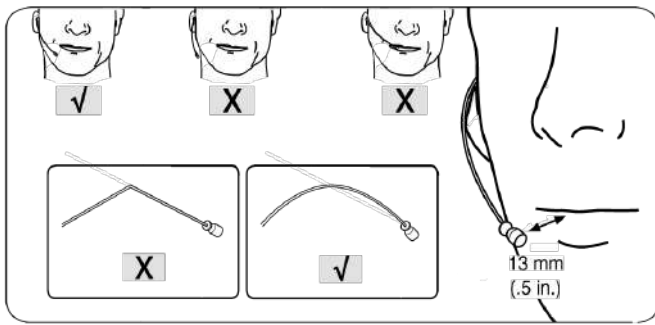
This microphone features CommShield® Technology for superior RF filtering. For best results in hostile RF environments, always use the RK100PK preamp (see Optional Accessories).

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## Wearing the Earset

Fit the earset over the ear with the ear support piece placed behind the earlobe. The wire extends over the ear to the tip of the mouth. Adjust the earset with small bends. Do not bend the boom arm beyond 20°.





## Specifications

### Transducer Type

Electret Condenser

### Polar Pattern

Omnidirectional

### Frequency Response

20 to 20,000 Hz

### Output Impedance

N/A

### Sensitivity

open circuit voltage, @ 1 kHz, typical

-41 dBV/Pa <sup>[1]</sup> (9 mV/Pa)

### Maximum SPL

1 kHz at 1% THD <sup>[2]</sup>

2500 $\Omega$ load	107 dB SPL
1000 $\Omega$ load	107 dB SPL

### Signal-To-Noise Ratio <sup>[3]</sup>

60 dB

### Dynamic Range

@ 1 kHz

2500 $\Omega$ load	73 dB
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1000  $\Omega$  load

73 dB

**Self Noise**

equivalent SPL, A-weighted, typical

34 dB

**Common Mode Rejection**

20 to 20,000 Hz

N/A

**Operating Temperature Range**

-18°C (0°F) to 57°C (135°F)

**Polarity**

Positive pressure on diaphragm produces negative voltage on pin 3 with respect to pin 1.

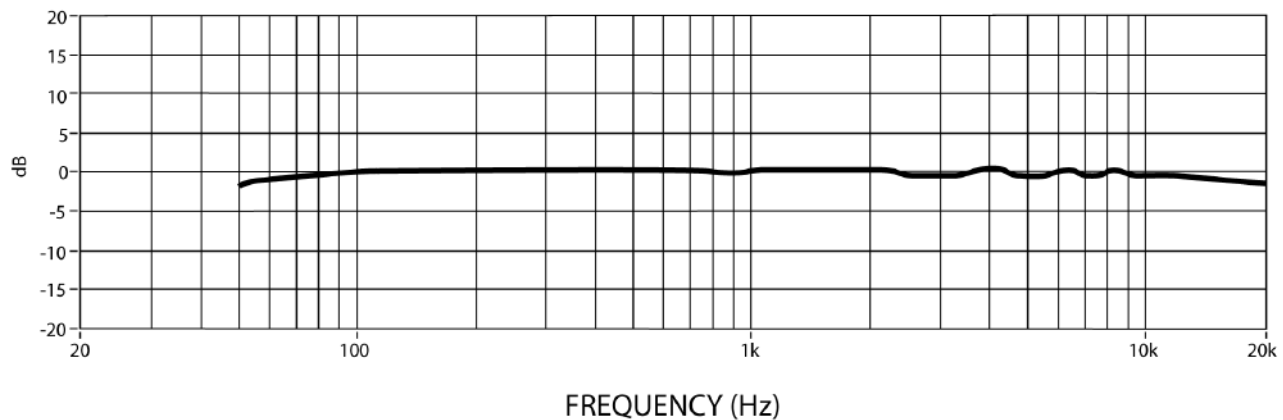
**Power Requirements**+1–5 V DC (500  $\mu$ A max.)**Weight**

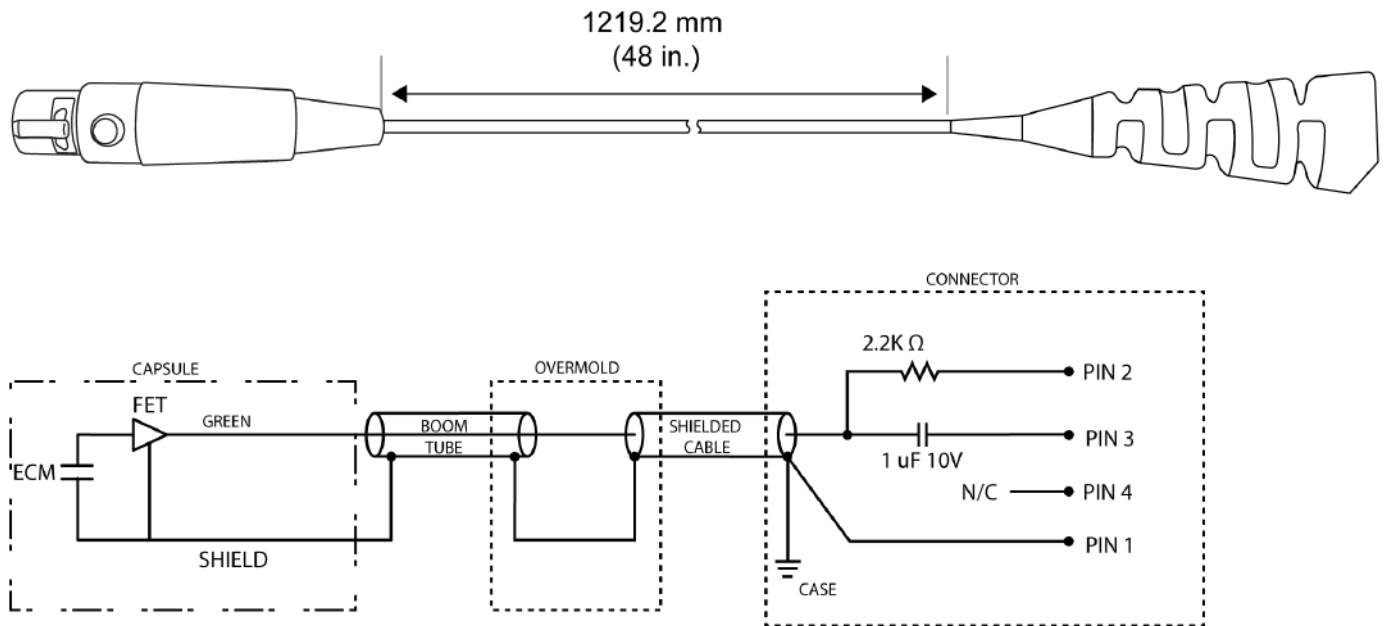
19.76 g

1 Pa=94 dB SPL

THD of microphone preamplifier when applied input signal level is equivalent to cartridge output at specified SPL

S/N ratio is the difference between 94 dB SPL and equivalent SPL of self noise, A-weighted





## Accessories

### Furnished Accessories

MX153 accessory kit (3 windscreens, 1 collar clip) Black	RPM153B
MX153 accessory kit (3 windscreens, 1 collar clip) Tan	RPM153T
MX153 accessory kit (3 windscreens, 1 collar clip) Co-coa	RPM153C
Storage pouch	WA153

### Optional Accessories

XLR Preamp	RK100PK
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### Replacement Accessories

4-Pin Mini Connector (TA4F/TQG)	WA330
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## Certifications

Eligible to bear CE Marking. Conforms to European EMC Directive 2004/108/EC. Meets Harmonized Standards EN55103-1:1996 and EN55103-2:1996, for residential (E1) and light industrial (E2) environments.

The CE Declaration of Conformity can be obtained from: [www.shure.com/europe/compliance](http://www.shure.com/europe/compliance)

Authorized European representative:

Shure Europe GmbH

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**Note:** Information in this guide is subject to change without notice. For additional information about this product, please visit [www.shure.com](http://www.shure.com).

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