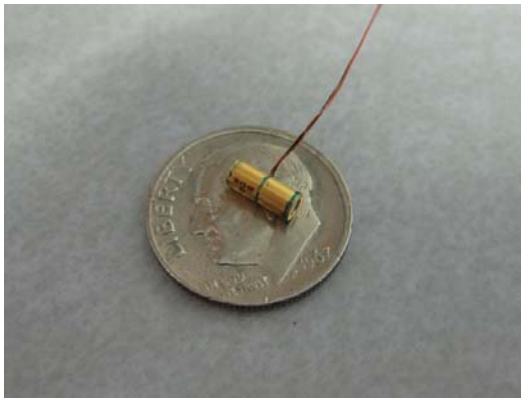
# 153-01 Directional Microphone

P/N T-23199-001

Microphone Products
Technical Data Sheet

## Features

- Cardioid directional pickup pattern
- Based on Sierra Peaks Tibbetts' durable cylindrical design
- Sub-miniature size
- Low inherent noise
- Internal EMI protection
- Configured with wires for a variety of applications



**Model 153 microphone**
**(Fine wire leads included, cabled assemblies made upon request)**

## Performance Specifications

| | | | |
|---|---|---|---|
| **Directional pattern** | - 1kHz @ 1m | Cardioid | |
| **Sensitivity** | - Nominal<br>- Minimum<br>- Maximum | -45<br>-48<br>-42 | dB re 1 V/Pa<br>@ 1kHz |
| **A-Weighted Noise** | - Maximum | 35 | dBA (sound equivalent) |
| **Supply Voltage** | - Nominal<br>- Maximum | 6.0<br>9.0 | Volts<br>Volts |
| **Sound Pressure Capability** | - Minimum | 130 | dBSPL |
| **Supply current** | - Nominal<br>- Maximum | 250<br>600 | µA |
| **Output Impedance** | - Nominal<br>- Minimum<br>- Maximum | 1000<br>450<br>3000 | Ohms |
| **DC Output level** | - Minimum<br>- Maximum | 1.5<br>3.5 | Volts (@ 6V supply) |
| **Vibration Sensitivity** | - Maximum | 66 | dB SPL/g |
| **Power Supply Feed Through** | - Maximum | -8 | dB |
| **Resistance, Case to Ground** | - Maximum | 10 | Ohms |
| **Sensitivity to Humidity** | - Maximum | 0.06 | dB/%R.H. @ 1kHz |

(6.0 Volt supply at 50% Relative Humidity and 23˚ Celsius except where specified otherwise)

Note: Sierra Peaks Tibbetts 153 microphones have two internal 10 pF capacitors, one between B+ and Signal, the other between Signal and Ground, designed to reduce EMI interference.



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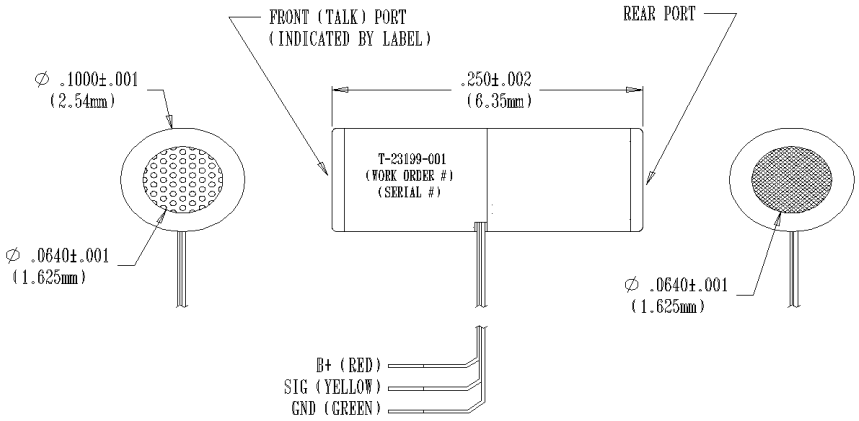
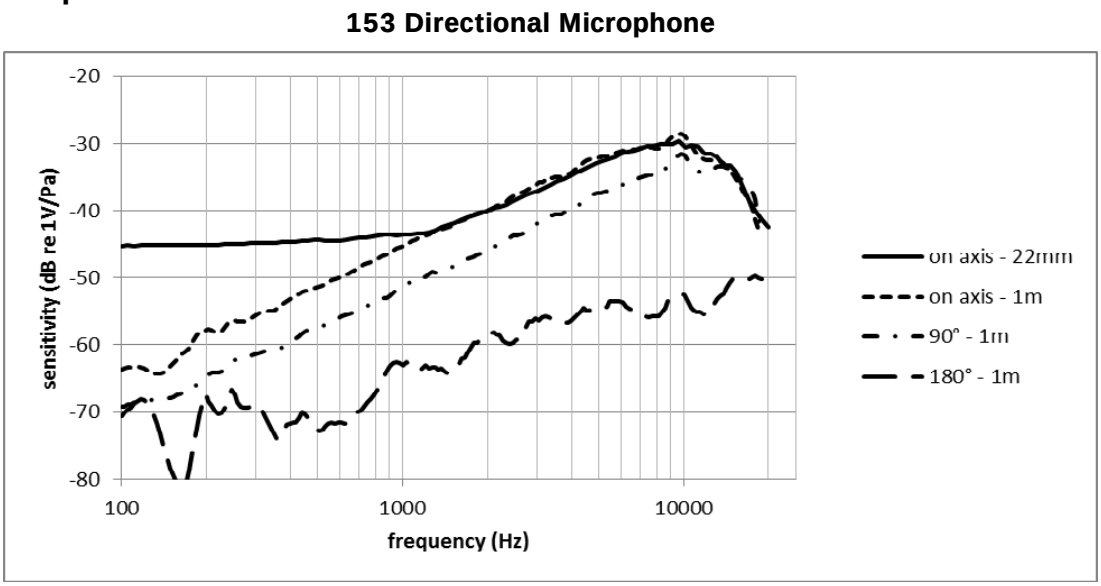
www.sierra-peaks.com

## Physical Dimensions

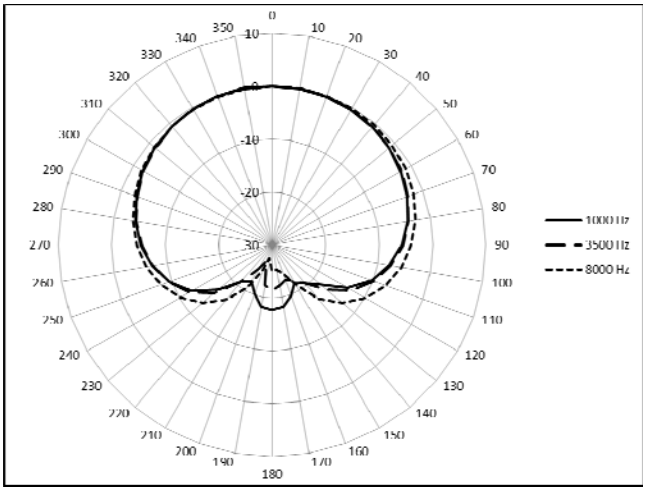



## Frequency Response




## Polar Pattern

(Test performed at 1m from sound source)



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