

M 5 3

Measurement Microphone



M53 Microphone

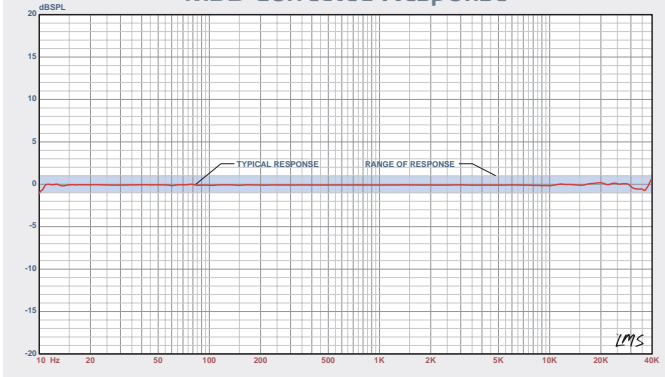
The M53 is a high performance low voltage electret condenser microphone. This microphone has high sensitivity and is designed for lower noise applications, such as NC theater curve measurement, transducers, loudspeaker systems, and room response. The M53 conforms to the external dimensions of industry standard 1/2 inch measurement microphones. This microphone features low cost, high output, low noise, low distortion, 130dB SPL capability, wide frequency response, and low voltage power supply requirements.

The M53 incorporates a special element / preamp design which enables performance and capabilities far superior to that of typical electret type microphones, and allows for operation from a single 10 Volt DC supply. A separate detachable cable is provided which converts the TB3M connector of the M53, to a standard 3 pin male XLR type connector.

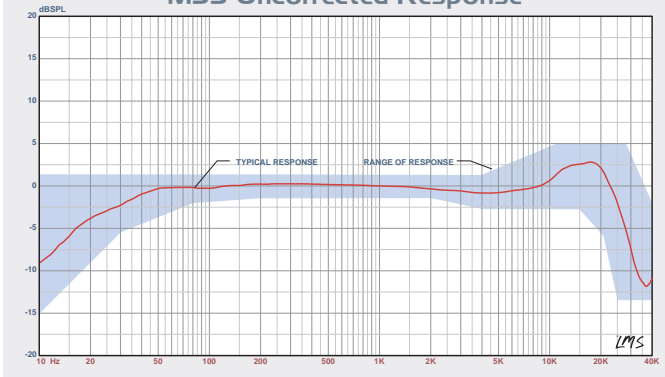
As with all LinearX microphones, each unit is measured using a comparison free-field calibration procedure with a laboratory grade reference microphone to produce a precision error response curve. This can be used for correcting the response. This data is provided in an ASCII mic data file (MDF) on 3.5" disk.

M 5 3 T e c h n i c a l S p e c i f i c a t i o n s

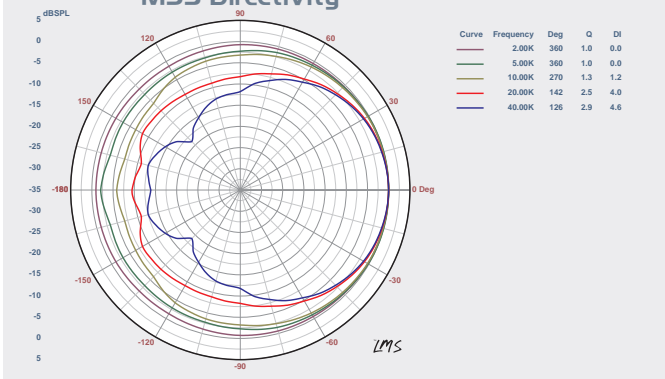
M53 Corrected Response



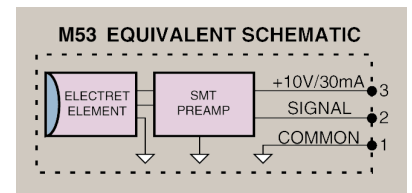
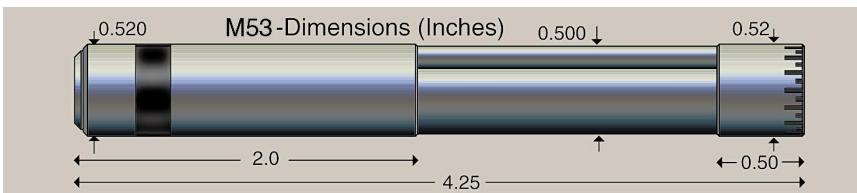
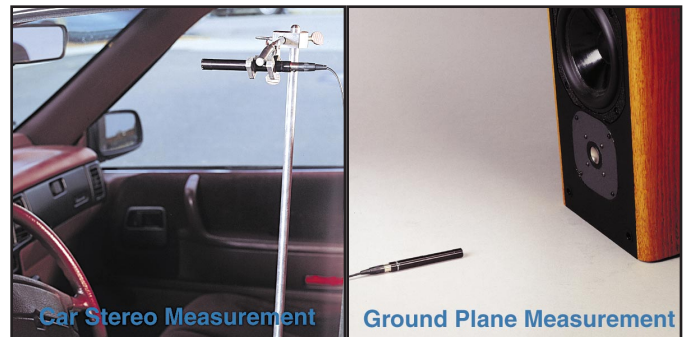
M53 Uncorrected Response



M53 Directivity



Element Type	Electret Condensor
Preamp / Line Driver	SMT active preamp
Uncorrected Freq Response	±5dB 20Hz-20kHz
Corrected Freq Response	±1dB 10Hz-40kHz
Acoustic Sensitivity	-15dBm/Pa (140mV/94dBspl)
Output Impedance	150 Ohms
Maximum SPL	130 dBspl
1/3 Octave Noise @1kHz	9 dBspl
ANSI-A Weighted Noise	18 dBspl
Temperature Range	0C° to +40C°
Temp Coef @1kHz	-0.01dB/C°
DC Supply Voltage	9-11 Vdc
DC Supply Current	30mA (Max)
Electrical Connector	Switchcraft TB3M
Construction and Finish	Aluminum, Black Anodized
Microphone Dimensions	Dia: 0.52", Length: 4.25"
Weight of Microphone	1 oz (28 grams)
XLR Adapter Cable Length	6 Feet (2 meters)



LinearX Systems Inc
 9500 SW Tualatin-Sherwood Rd, Tualatin, OR 97062-8586 USA
 Tel: (503) 612-9565 - Fax: (503) 612-9344 - Internet: www.linearx.com

LINEAR X
 S Y S T E M S