

**OMNIDIRECTIONAL DYNAMIC MICROPHONES**



**GENERAL**

The Model 533 Series Microphones are dynamic omnidirectional microphones with a spherical front. The units provide wide range reproduction of music and voice, making them ideal for general purpose use in public-address, theater-stage sound systems, and tape recording applications. Rock and other groups will find these microphones particularly desirable. They are also recommended for interview type use where "hand-ability" of the microphone is important.

**Microphone Features:**

- Uniform frequency response from 40 to 11,000 Hz
- Built-in wind, breath, and pop filter
- Small size and light weight
- A built-in On-Off switch
- Versatility — for use on a floor or desk stand — indoors or outdoors
- Dependability under all operating conditions

The Model 533 Microphones are supplied with an adjustable swivel adapter which permits the microphone to be tilted through 90° from vertical to horizontal. This swivel also allows for "quick-disengage" for use as a hand microphone.

Model 533SA is high impedance for connection to high-impedance microphone inputs.

Model 533SB is low impedance for connection to microphone inputs rated at 19 to 300 ohms. The low-impedance microphone is recommended where long cable lengths are required or under conditions of severe hum disturbance. The permissible cable length is practically unlimited, since neither response nor level is appreciably affected. Shure Model A95 Series Line Matching Transformers are available for use in those cases where a low-impedance microphone line is desirable but the associated amplifier has a high-impedance input. These transformers provide a proper impedance match between a 19 to 300 ohm micro-

phone line and a high-impedance input and are available with various input and output connectors.

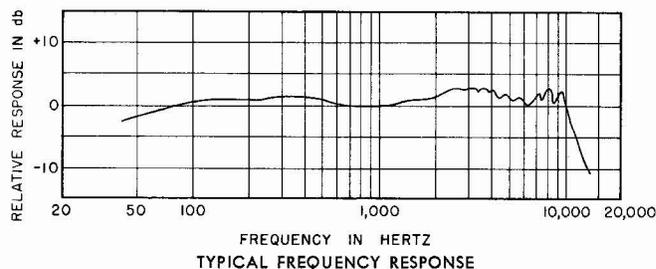
**SPECIFICATIONS**

**Type**

Dynamic

**Frequency Response**

40 to 11,000 Hz (See Figure 1)



**FIGURE 1**

**Polar Pattern**

Omnidirectional

**Impedance**

533SA—Microphone impedance is "High" for connection to high-impedance microphone inputs.

533SB—Microphone rating impedance is 150 ohms (200 ohms actual) for connection to microphone inputs rated at 19 to 300 ohms.

**Output Level (at 1,000 Hz)**

	<u>533SA</u>	<u>533SB</u>
Open Circuit Voltage* . . . . .	-55 dB (1.77 mV)	-77 dB (.141 mV)
Power Level** . . . . .		-56 dB

\*0 dB = 1 volt per microbar

\*\*0 dB = 1 milliwatt per 10 microbars

**Switch**

Built-in On-Off switch with lockplate. To lock switch in On position, remove screw on lockplate and turn lockplate 180°. Reassemble and tighten screw.

**Cartridge Shock Mount**

Internal rubber vibration-isolator

**Cable**

533SA—4.6m (15 ft) one-conductor shielded, detachable, with Amphenol MC1F type connector on microphone end

533SB—4.6m (15 ft) two-conductor shielded, detachable, with Amphenol MC2M type connector on microphone end

**Swivel Adapter**

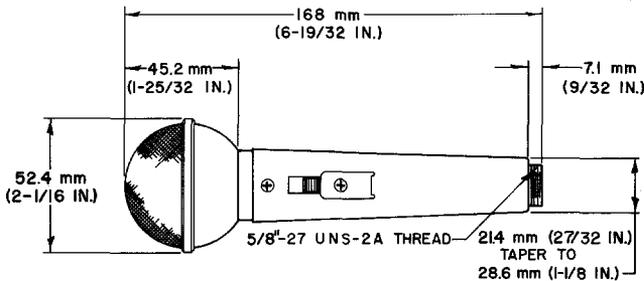
Positive action, adjustable through 90° from vertical to horizontal, permits easy removal for handheld use, suitable for mounting on stand with 5/8"-27 thread

**Case**

Satin-chrome plated die casting with stainless steel grille

**Dimensions**

See Figure 2



OVERALL DIMENSIONS  
**FIGURE 2**

**Net Weight (less cable)**

312 grams (11 oz)

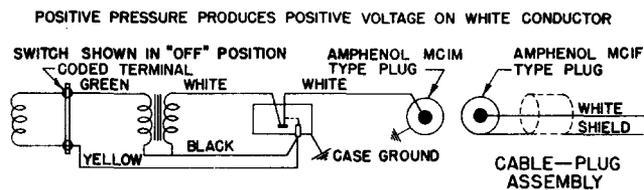
**Packaged Weight**

768 grams (1 lb 11 oz)

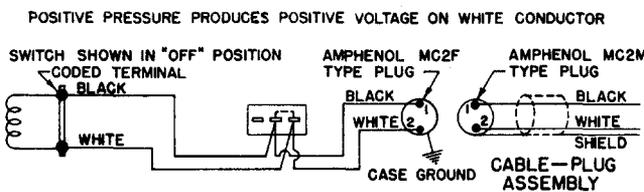
**PHASING**

To test two microphones and/or their cables for proper phasing, connect them to an amplifier and talk or sing into them while holding them three or four inches apart. The sound from the speakers should be the same when talking into either microphone or directly between them if they are in phase with each other. If the sound drops drastically, or if a dead spot is found when talking between the two microphones, they are out of phase. All cables and microphones should be tested in this manner to insure that they are in phase with each other.

To change the phase of a low-impedance microphone cable, either use a Shure A15PR Phase Reverser or interchange the BLACK and WHITE cable leads at the equipment end of the cable. To change the phase of a microphone, the microphone cartridge leads must be interchanged (see Figure 3). This should be performed by your dealer, the Shure Factory Service Department, or other qualified service personnel.



MODEL 533SA DYNAMIC MICROPHONE



MODEL 533SB DYNAMIC MICROPHONE

INTERNAL CONNECTIONS  
**FIGURE 3**

**ARCHITECTS' SPECIFICATIONS**

The microphone shall be the Shure Model 533SA, 533SB, or equivalent. The microphone shall be a moving coil (dynamic) type with a frequency response of 40 to 11,000 Hz. The unit shall have an omnidirectional polar characteristic.

Model 533SA shall be high impedance for connection to high-impedance microphone inputs.

Model 533SB shall be low impedance with a rated impedance of 150 ohms for connection to microphone inputs rated at 19 to 300 ohms.

The microphone output shall be:

533SA ..... -55 dB  
(0 dB = 1 volt per microbar)

533SB ..... -56 dB  
(0 dB = 1 milliwatt per 10 microbars)

The microphone shall be provided with a swivel adapter, adjustable through 90° from vertical to horizontal, and suitable for mounting on a stand having a 5/8\"-27 thread. The microphone shall be equipped with a built-in On-Off switch.

Model 533SA shall be provided with a detachable 4.6m (15 ft) one-conductor shielded cable with an Amphenol MC1F type connector on the microphone end.

Model 533SB shall be provided with a detachable 4.6m (15 ft) two-conductor shielded cable with an Amphenol MC2M type connector on the microphone end.

The overall dimensions of the microphone shall be 168 mm (6-19/32 in.) in length and 52.4 mm (2-1/16 in.) in diameter.

**FURNISHED ACCESSORY**

Swivel Adapter .....A25B

**OPTIONAL ACCESSORIES**

Line Matching Transformer .....A95 Series  
Windscreen .....A61WS  
Desk Stand .....S33B, S37A, S38B, S39A or S40A  
Dual Mount .....A26M  
Quick Disconnect Adapter .....A45

**REPLACEMENT PARTS**

	533SA	533SB
Cartridge .....	R33	R33
Cable .....	C58	C57
Screen and Grille Assembly .....	RS33	RS33
On-Off Switch .....	RK48S	RK48S
Cable Connector .....	RK114P	RK115P
Plug Element .....		RK52P

**GUARANTEE**

This Shure product is guaranteed in normal use to be free from electrical and mechanical defects for a period of one year from date of purchase. Please retain proof of purchase date. This guarantee includes all parts and labor. This guarantee is in lieu of any and all other guarantees or warranties, express or implied, and there shall be no recovery for any consequential or incidental damages.

**SHIPPING INSTRUCTIONS**

Carefully repack the unit and return it prepaid to:  
Shure Brothers Incorporated  
Attention: Service Department  
1501 West Shure Drive  
Arlington Heights, Illinois 60004

If outside the United States, return the unit to your dealer or Authorized Shure Service Center for repair. The unit will be returned to you prepaid.