



TELECASTING — BROADCASTING — RECORDING PAGING — PUBLIC ADDRESS SYSTEMS

Features

Withstands
Temperature Variations

Pop-Screen Filter

Wide Frequency Response

Cardioid Pick-up Pattern

Special Mylar® Diaphragm

Shock and Blast Resistant

Unaffected by
Humidity Extremes

Effortless Insertion
and Removal from
Swivel Mounting Adapter

Positive "Lock-In"
Safety Feature

Sturdy Compact Styling

Standard 3-Pin Connector

Moderate Price

The Altec 683B cardioid microphone incorporates all the engineering benefits of a dynamic moving coil unit with a newly designed compliance configuration. The response of the 683B is essentially flat from 45 to 15,000 cycles, far beyond that of most conventional cardioid dynamic types. The output impedance of the 683B is 150/250 ohms. Output level of the 683B is -54 dbm/10 dynes/cm².

As with other Altec microphones in this series, the 683B is styled for an attractive slim-line appearance and is available in a choice of finishes. A microphone, custom finished in 22-carat gold plate and proper for use on the lectern or pulpit in traditional or modern church interiors, is available if desired. An extremely hard baked clear lacquer coating has been provided for protection against scratching, scraping or other accidental damage.

The microphones come complete with 15 feet of shielded cable (100% shield), a slip-on swivel adapter for use with a microphone stand, and the new 3-pin connector, XLR3-11C, the standard of the industry. The 3-pin connector will lower the installation cost by being compatible with most existing paging, recording and broadcasting systems. A locking facility on the microphone prevents inadvertent slippage, and subsequent possibility of damage, when installed on the slip-on swivel adapter — yet permits instantaneous insertion and removal with minimum effort on the part of the performer or user.

The 683B is well suited to applications where a high quality cardioid microphone is required for directional sound pickup or where background noise or feedback may be a problem.

The 683B features Altec's Diaphragm of Mylar® polyester which provides a smooth uniform response and extreme ruggedness and durability. The diaphragm is highly resistant to the effects of shock, blasts or corrosive fumes and is able to withstand extreme humidity and temperature variations. The internal pop-screen filter, used in the 683B provides additional "pop" protection for the acoustical element.



A Division of *LS* Ling Altec, Inc.

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PERFORMANCE SPECIFICATIONS

| | |
|----------------------------|---|
| Type: | Moving Coil Dynamic |
| Frequency Response: | 45 to 15,000 cps. |
| Output Impedance: | 150/250 ohms |
| Output Level: | -54 dbm/10 dynes/cm ² |
| Discrimination: | Average front to back, 20 db |
| Pickup Pattern: | Cardioid |
| Hum: | -120 db (Ref.: 10 ⁻³ Gauss) |
| Dimensions: | 1½" diameter at top, 7¼" long (not including cable) |
| Weight: | 11 ozs. (not including cable and plug) |
| Finish: | Two-tone baked enamel: Black and dark green, dark brown and platinum, brushed chrome plating or custom 22-carat Gold plate (specify) |
| Mounting: | Separate "Slip-on" adapter No. 13798 (black) or 13799 (brown) furnished to permit instantaneous removal of microphone from stand. Adapter has standard ⅝" -27 thread. Swivel mounting permits proper positioning of microphone on all stands. 15 feet of 2-conductor shielded cable (100% shield) is supplied with a plug for connection to the microphone. |
| Accessories: | See "Microphone Accessories" sheet for desk or floor stands, on-off switches, adapters, and other microphone accessories. |

ARCHITECTS AND ENGINEERS SPECIFICATIONS

The microphone shall be of the cardioid type employing the moving coil dynamic principle with a diaphragm of Mylar® having tangential compliance to provide full protection against extreme shock and blasts. The diaphragm shall withstand exposure to temperature variations of -20 to +160 degrees Fahrenheit and shall be protected by an internal two-stage pop-screen filter to provide further protection of the diaphragm. The frequency response shall be uniform from 45 to 15,000 cps. The microphone shall accept the standard 3-pin connector, such as the Cannon XLR-3-11C, directly without the use of adapters. Microphones supplied under this specification shall not be of the multiple impedance type thereby eliminating the possibility of the microphone being installed with the improper matching impedance. The microphone shall be furnished complete with 15 feet of 2-conductor shielded cable (100% shield) and a plug for connection to the microphone.

The case shall be conical in shape and shall not measure more than 1½" in diameter in its largest diameter and shall be no longer than 7¼" not including connector. The microphone shall be available in: (select one) dark green and black, dark brown and platinum, brushed chrome or custom finished 22-carat Gold plate. The microphone shall be furnished with a slip-on swivel adapter with a minimum of effort on the part of the performer or user, yet providing complete protection from accidental slippage of the microphone, regardless of positioning.

The output level shall be at least -54 dbm/10 dynes/cm² and the output impedance shall be 150/250 ohms. The average discrimination between the front and back of the microphone shall be in the order of 20 db over the range of 45 to 15,000 cps. The hum shall be no greater than -120 db (Ref.: 10⁻³ Gauss).

Any microphone not meeting all these requirements shall be deemed unacceptable under these specifications.

The microphone shall be Altec Lansing Model 683B.

NOTICE

We recommend that you obtain your Altec products from factory trained authorized Altec Sound Contractors and Distributors. This will assure you of proper installation, a continuing source of knowledgeable advice, service, and quick warranty protection.