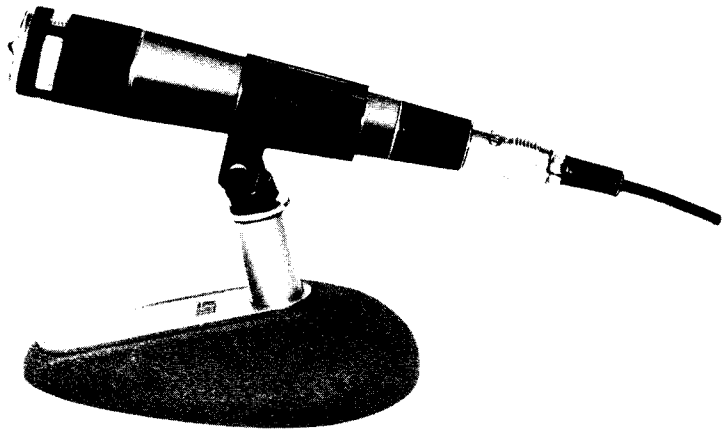
683A Cardioid Microphone

683A

Sintered Bronze Filter



Features:

- Cardioid Pickup Pattern
- Special Mylar® Diaphragm
- Impedance Selection Built-In
- Exclusive Altec Filter
- Resistant to Shock and Blasts
- Unaffected by Humidity Extremes
- Withstands Temperature Variations
- Highest Recording Quality
- Sturdy Compact Styling

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The Altec model 683A microphone is a Cardioid type incorporating all the engineering benefits of a dynamic moving coil unit, combined with a newly designed compliance configuration. Response of this Model 683A is far beyond most conventional cardioid types, being flat from 45 to 15,000 cycles.

Altec's new *Golden Diaphragm* of Mylar® polyester used in the 683A, provides smooth, uniform response and extreme ruggedness and durability. The diaphragm is highly resistant to the effects of shock, blast, or corrosive fumes. A new sintered bronze filter used in the model 683A assures even further protection of the acoustical element by prohibiting the entrance of any foreign particles or moisture.

As with other Altec microphones in this series, the model 683A is styled for an attractive slim-line appearance. It is available in a choice of finishes, and comes complete with cable and a slip-on adapter for use with a microphone stand. Impedance selection is conveniently built into the cable connector plug.

The 683A cardioid-type microphone is most useful in installations where sound pickup should be from one direction only, or where background or feed-back may be a problem. It is recommended for any application where a high quality unit of this type is called for.

ALTEC LANSING CORPORATION

A Subsidiary of Ling-Temco-Vought, Inc.

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ALTEC 683A

PERFORMANCE SPECIFICATIONS:

Type:	Cardioid Dynamic
Frequency Response:	45 to 15,000 cycles
Output Impedance:	30/50, 150/250 and 20,000 ohms (selectable by connections in microphone cable plug)
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 plug
Weight:	11 ozs. (not including cable and plug)
Finish:	Two-tone baked enamel, black and dark green, or dark brown and platinum or brushed chrome plating
Mounting:	Separate "Slip-On" adapter No. 13798 (black) — 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. Microphone complete with 15 foot, 2 conductor shielded cable.
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 principal 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 from −20 degrees F to 160 degrees F and shall not be susceptible to the effects of chemical fumes. The microphone sound entrance shall be protected by a two-stage filter composed of one sintered bronze and one cast screen to prevent water, moisture, dust or ferrous particles from contaminating the acoustical element. The frequency response shall be uniform from 45 to 15,000 cps. The case shall be conical in shape and shall not measure more than 1½" in diameter in its largest dimension and shall be no longer than 7¼" not including connector. The microphone shall be furnished complete with a slip-on adapter for mounting on a microphone stand. The output level shall be at least −54 dbm (SPL equals 10 dynes/cm^2) and the output impedance shall be selectable at 30/50, 150/250 and 20,000 ohms balanced with respect to ground. 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 cycles. The hum shall be no greater than −120 db (Ref.: 10^{-3} Gauss). Provisions shall be available in the microphone cable plug for selecting the required impedance.

This microphone shall be Altec Lansing Model 683A,

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CAT. NO. AL-1457-1