

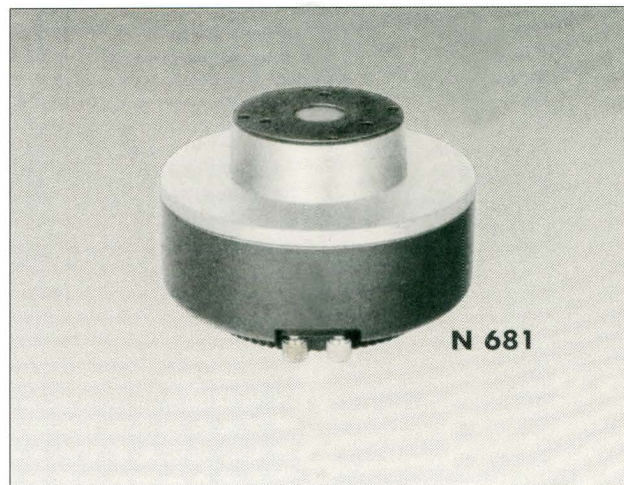
Laboratory Series

New Product Information

RCF N681K

Titanium Diaphragm Compression Driver

- **Exceptionally High Output Capabilities** of 129.5 dB SPL results from the N681K's high conversion efficiency combined with its excellent power handling.
- **Titanium Diaphragm And Surround** offers extended high frequency response without sacrificing power handling for high definition sonic performance combined with unmatched reliability.
- **High Technology Voice Coil Assembly** utilizing a Kapton™ former for maximum thermal capabilities to eliminate assembly fatiguing resulting in total freedom from coil/gap misalignment.
- **Precision Hand Crafted Edgewound Aluminum Coil** improves both high frequency bandwidth and conversion efficiency.
- **Extended High Frequency Response** - The N681K's usable high frequency limit of 19,000 Hz makes it ideal for use in high output systems requiring the utmost in sonic definition.



- **Simple Field Replaceable Diaphragm** - In the unlikely event of a field failure the new self centering diaphragm/voice coil assembly can be quickly replaced with a minimum of tools and training.

RCF N681K Specifications:

Horn Throat Diameter: 25.4 mm (1-in)
 Mounting Type: Standard 3-bolt or 2-bolt patterns

Frequency Response

+/- 3 dB (on H3709 horn): 700 Hz to 16,000 Hz
 - 10 dB (on H3709 horn): 500 Hz to 19,000 Hz

Power Handling

Continuous Program: 100 watts >800 Hz
 150 watts > 1,500 Hz
 Continuous Pink Noise: 50 watts >800 Hz
 75 watts >1,500 Hz
 100 hour Sine Wave: 35 watts

Sensitivity

On RCF H3709 Horn: 108 dB SPL 1w @ 1m
 On RCF H2009 Horn: 106 dB SPL 1w @ 1m
 On JBL 2370 Horn: 110 dB SPL 1w @ 1m
 On Plane Wave Tube: 116 dB SPL 1mw

Max Output: (H3709 horn)

Peak: 129.5 dB SPL @ 1m
 Long Term: 126 dB SPL @ 1m

Additional Performance Data

Nominal Efficiency: 25%
 Nominal Impedance: 8Ω

Recommended Minimum Crossover Frequency

12 dB/Octave: 1,500 Hz
 18 dB/Octave: 1,000 Hz
 24 dB/Octave: 800 Hz

Design Data

Voice Coil Diameter: 44.4 mm (1.75-in)
 Voice Coil Former: Kapton™
 Voice Coil Material: Edgewound Aluminum Alloy
 Diaphragm Material: Titanium
 Flux Density: 19,800 gauss

Replacement Diaphragm: M59

Dimensions And Weight

Mounting Flange Diameter: 100 mm (3.93-in)
 Overall Diameter: 160 mm (6.29-in)
 Overall Depth: 95 mm (3.75-in)
 Net Weight: 6 Kg (13.2 lbs)

The N681K is manufactured in Italy by RCF S.p.A. and is available exclusively in the United States From EAW