

C300z

Featuring legendary Mackie sound quality and durability, the lightweight C Series 2-way Precision Passive loudspeakers deliver optimum performance in portable PA, stage monitor and permanent installation applications. The C300z is a full-range portable loudspeaker providing high-output, ultra-wide dispersion and low-distortion performance in a compact, composite molded enclosure.

A heat-treated titanium compression driver with multi-cell aperture directs pristine highs through an exponential high-frequency waveguide, allowing for ultra-wide dispersion of highs and mids. In fact, the C300z can deliver clear, smooth sound to audience members up to 45° off axis.

The custom-designed high-power 12-inch woofer can take a pounding, plus its 3-inch voice coil allows the driver to run cooler, delivering consistent performance even after long hours of use at near peak volumes.

The crossover in the C300z is a unique Low Impedance Compensated Crossover (LICC) design. With EQ and crossover points meticulously chosen so that beamwidth patterns match in both drivers, C300z loudspeakers offer natural sound at all volume levels.

The center of gravity, handle locations, handle design, position of fly-points and ease of use have been ergonomically designed. There is also an integrated pole mount on the bottom of the cabinet and a weather-resistant steel grille. The asymmetrical trapezoidal cabinet has been designed to provide an ideal floor monitoring position.

The cabinet is constructed of high-pressure injected polypropylene. The enclosure features reinforcement ribbing and structural strengthening resulting in a strong, super-rigid design providing ideal acoustical characteristics.

APPLICATIONS

Small to mid-size club/band PA systems, houses of worship, DJs, vocal/band monitor wedges, gymnasiums, banquet halls, conference rooms and many, many more.



FEATURES:

- 2-way portable Precision Passive loudspeaker system
- 750W / 300W RMS peak power handling at 8 Ω
- 12" long-throw low-frequency transducer with 3" voice coil
- High-output 1.75" titanium compression driver
- Ultra-wide, smooth dispersion via multi-cell horn aperture and constant directivity horn
- Integrated Low Impedance Compensated Crossover (LICC) with full driver protection
- Lightweight for ultimate portability (46 lb / 20.9 kg)
- Asymmetrical trapezoidal cabinet for floor monitor positioning
- Stand / Pole-mountable
- Flyable via ten M10 rigging points using the optional eyebolt kit

C300z SPECIFICATIONS

Acoustic Performance

| | |
|-------------------------------|--|
| Frequency Response (-3 dB) | 55 Hz-18 kHz |
| Frequency Range (-10 dB) | 45 Hz-20 kHz |
| Max SPL long-term | 123 dB @ 1 m |
| Low-Frequency Crossover Type | 24 dB / octave, time offset corrected |
| High-Frequency Crossover Type | 24 dB / octave |
| Crossover Point | 1800 Hz |

Audio

| | |
|-----------------------------|--|
| Input / Thru Connector Type | Speakon™-style NL-4 jack 1/4" TS jack |
| Input Impedance | 8 Ω |
| Power Handling | |
| RMS | 300 watts |
| Music | 500 watts |
| Peak | 750 watts |

Low-Frequency Transducer

| | |
|---------------------|----------------|
| Diameter | 12 in / 300 mm |
| Voice Coil Diameter | 3 in / 75 mm |
| Magnet Material | Ferrite |

High-Frequency Transducer

| | |
|--------------------|-----------------------|
| Diaphragm Diameter | 1.75 in / 44.5 mm |
| Diaphragm Material | Heat treated titanium |
| Horn Exit Diameter | 1 in / 24.5 mm |

Horn Design

| | |
|---------------------|--|
| Type | Conical and Exponential |
| Mouth Size | 12 in / 305 mm (W) x 7 in / 178 mm (H) |
| Horizontal Coverage | 90° (1 kHz - 20 kHz) |
| Vertical Coverage | 45° (2.8 kHz - 20 kHz) |

Safety Features

| | |
|---------------------------|---|
| Over-Excursion Protection | Second-order high-pass filter |
| Driver Protection | Dynamic protection for compression driver |

Construction Features

| | |
|-----------------------------|---|
| Basic Design | Asymmetrical Trapezoidal |
| Material | Polypropylene |
| Finish | Black, textured finish |
| Handles | One on each side, one on top |
| Grille | Perforated metal with weather-resistant coating |
| Operating Temperature Range | -10° C to 45° C 14° F to 113° F |

Physical Properties (packaged product)

| | |
|-----------------|-------------------|
| Height | 26.5 in / 673 mm |
| Width | 16.8 in / 427 mm |
| Depth | 15.5 in / 394 mm |
| Shipping Weight | 52.0 lb / 23.6 kg |

Physical Properties (product)

| | |
|------------|-------------------|
| Height | 26.1 in / 663 mm |
| Width | 16.0 in / 406 mm |
| Depth | 14.8 in / 376 mm |
| Net Weight | 46.0 lb / 20.9 kg |

Mounting Methods

Floor mount, pole mount, or fly via 10 integrated M10 threaded inserts (two each located on each side, top, bottom and rear of enclosure)

Options

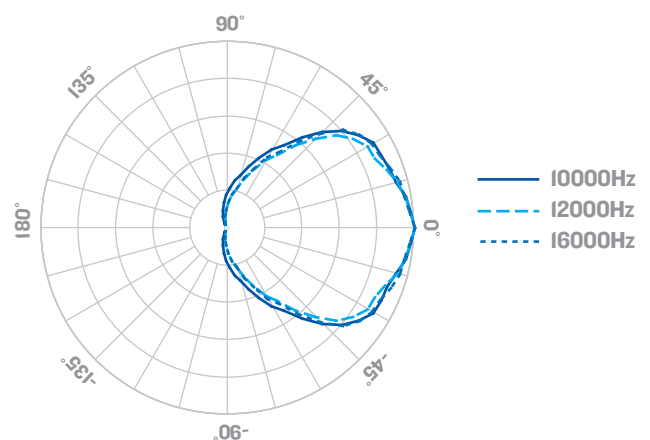
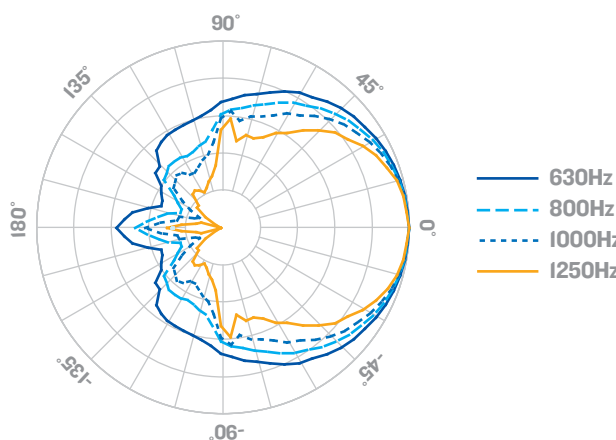
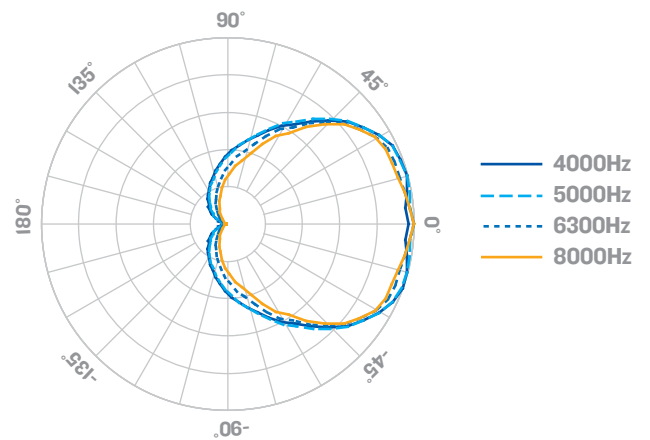
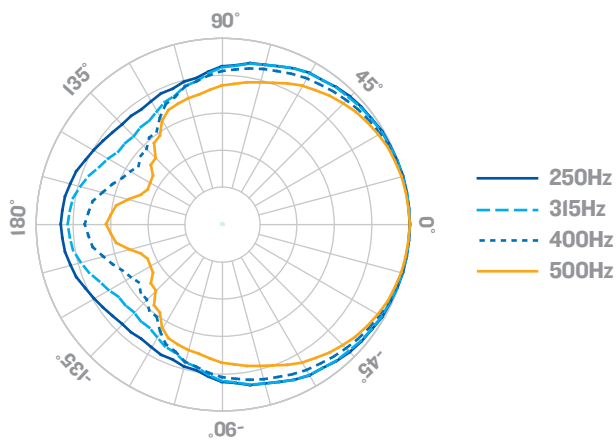
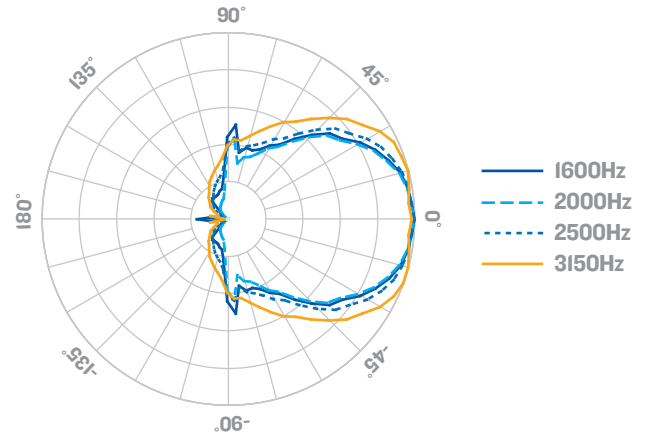
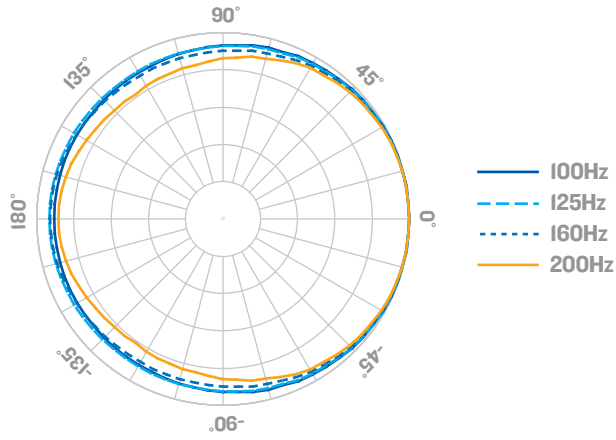
| | |
|--|----------------|
| PA-A1 forged shoulder eyebolt kit (4 x M10 x 1.5 mm x 20 mm) | P/N 0031943 |
| SPM200 Loudspeaker Pole Mount | P/N 2035170-01 |

Ordering Information

| | |
|--------------------------------------|----------------|
| C300z Passive, 2-way Loudspeaker | P/N 2033793 |
| C300z Passive, 2-way Loudspeaker, CN | P/N 2033793-05 |

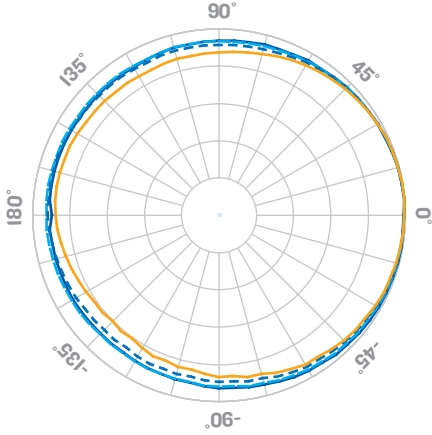
C300z HORIZONTAL POLARS

Gridlines: 6 dB axial / 15 degrees radial

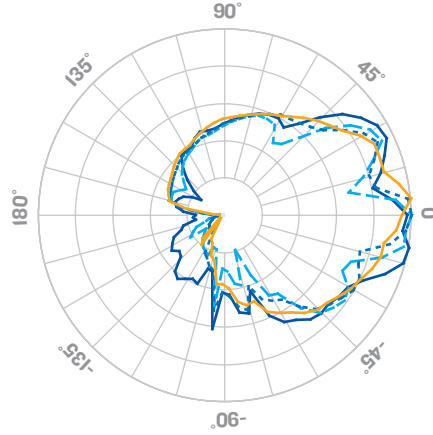


C300z VERTICAL POLARS

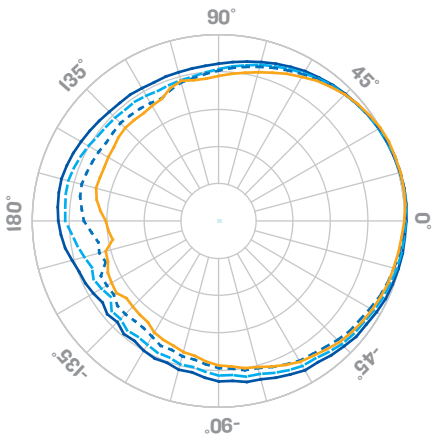
Gridlines: 6 dB axial / 15 degrees radial



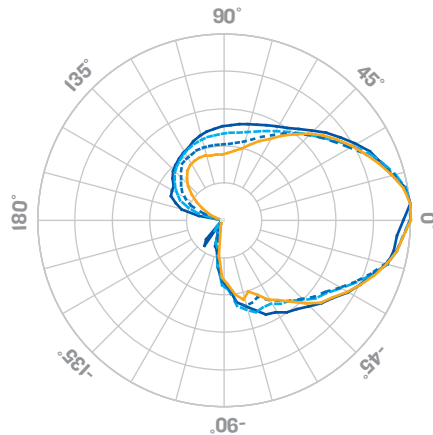
- 100Hz
- 125Hz
- 160Hz
- 200Hz



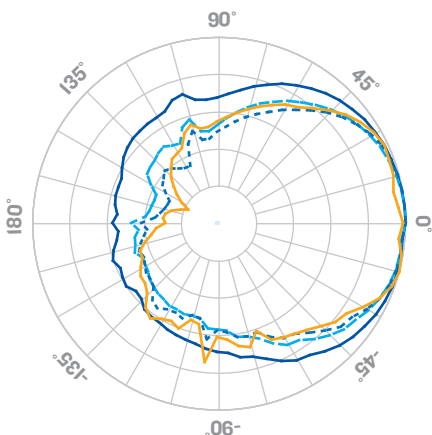
- 1600Hz
- 2000Hz
- 2500Hz
- 3150Hz



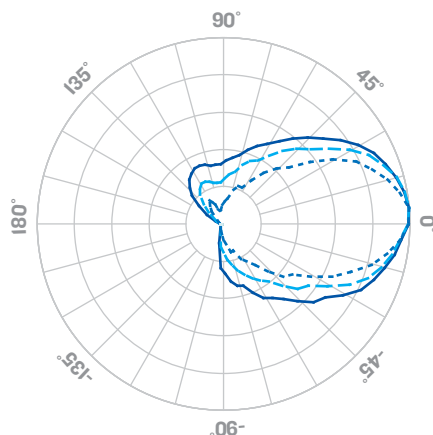
- 250Hz
- 315Hz
- 400Hz
- 500Hz



- 4000Hz
- 5000Hz
- 6300Hz
- 8000Hz

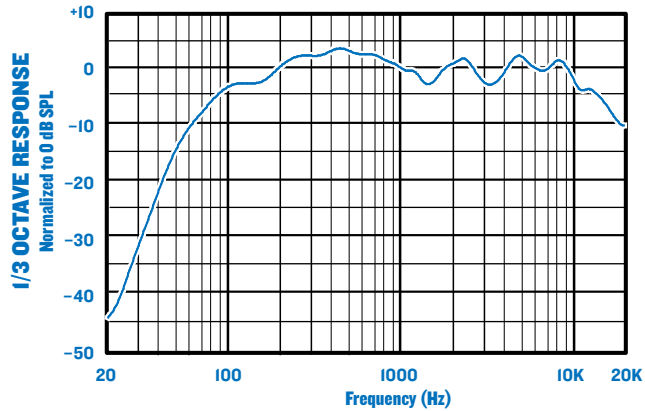


- 630Hz
- 800Hz
- 1000Hz
- 1250Hz

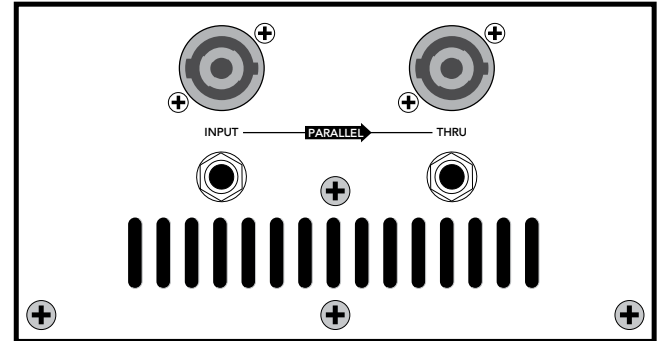


- 10000Hz
- 12000Hz
- 16000Hz

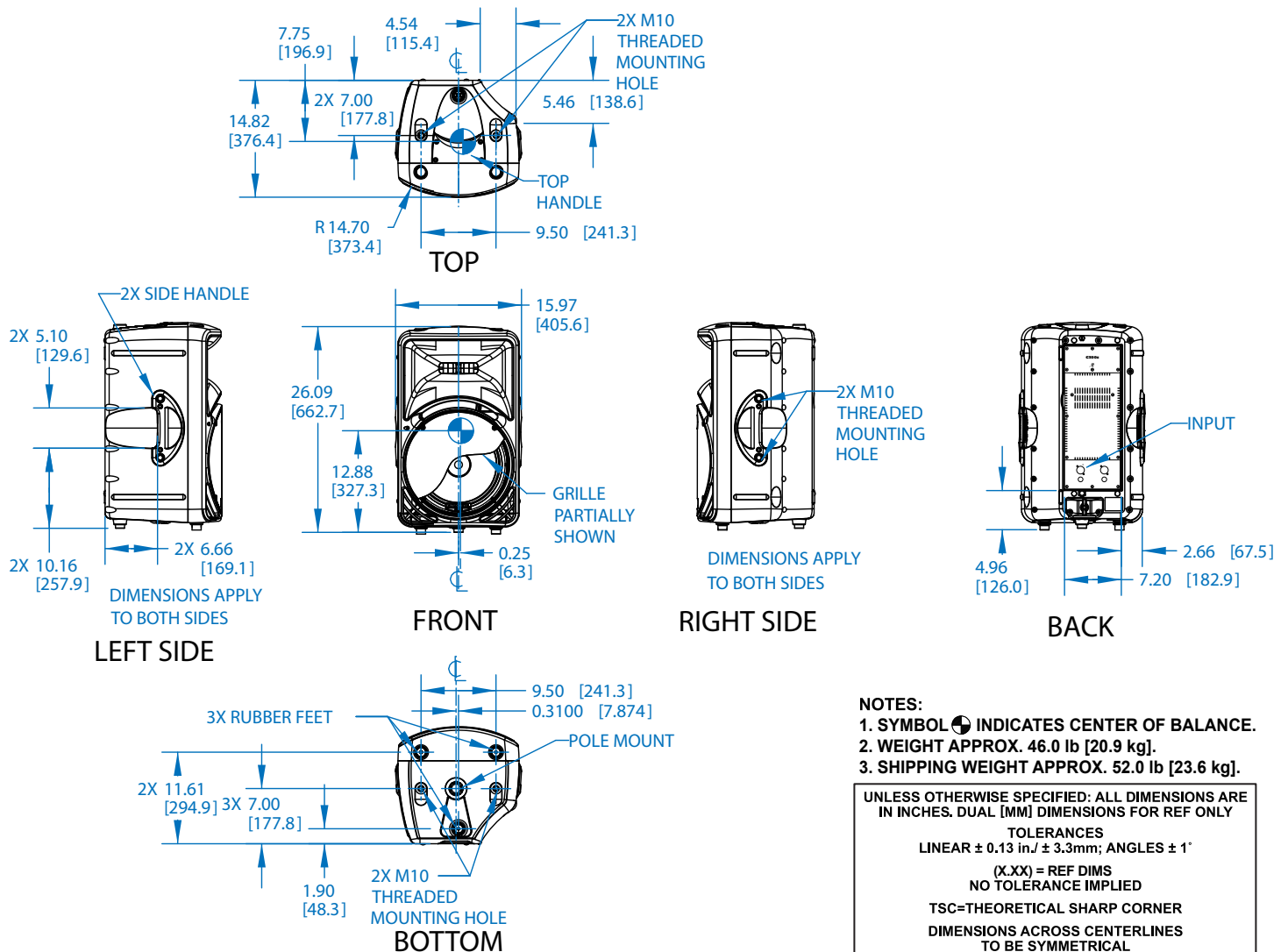
C300z FREQUENCY RESPONSE



C300z INPUT PANEL



C300z DIMENSIONS



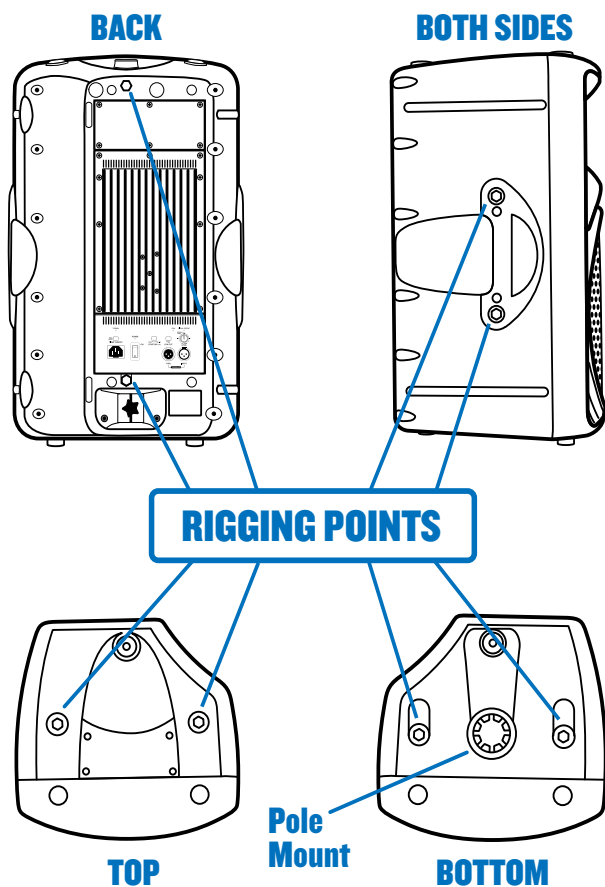
NOTES:

1. SYMBOL INDICATES CENTER OF BALANCE.
2. WEIGHT APPROX. 46.0 lb [20.9 kg].
3. SHIPPING WEIGHT APPROX. 52.0 lb [23.6 kg].

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES. DUAL [MM] DIMENSIONS FOR REF ONLY

TOLERANCES
 LINEAR ± 0.13 in./ ± 3.3mm; ANGLES ± 1°
 (X.XX) = REF DIMS
 NO TOLERANCE IMPLIED
 TSC=THEORETICAL SHARP CORNER
 DIMENSIONS ACROSS CENTERLINES
 TO BE SYMMETRICAL

C300z FLY POINTS



Electronic files for this product are available at:

www.mackie.com

Specification Sheet

C300z_SS.PDF

Owner's Manual

C300z_OM.PDF

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