R.15COAX

TWO-WAY 6.5-INCH COAXIAL
WEATHER-RESISTANT LOUDSPEAKER

Community®

TECHNICAL SPECIFICATIONS

SYSTEM

Loudspeaker Type:	Full-range, two-way, coaxial, weather-resistant	
Operating Range:	90 Hz to 16 kHz (-10 dB)	
Frequency Response:	125 Hz to 12.5 kHz (-3 dB)	
Max Input Ratings:	150W RMS, 300W Program 35 volts RMS, 69 volts momentary peak	
Autoformer Taps—70V: **100V:**	120W, 60W, 30W, 15W and low impedance 120W, 60W, 30W	
	MUSIC	***SPEECH***
Maximum Output:	116 dB (122 dB peak)	117 dB (123 dB peak)
Sensitivity (1W / 1m) **Free Space SPL:**	94 dB (125 Hz - 10 kHz) 92 dB (250 Hz - 4 kHz)	95 dB (125 Hz - 10 kHz) 93 dB (250 Hz - 4 kHz)
Nominal Impedance:	8 ohms, 4.2 ohms @12.5 kHz minimum	
Nominal Beamwidth (-6dB):	100° x 100° , 2 kHz to 10 kHz	
Axial Q / DI:	13.2/11.2, 2 kHz to 10 kHz	
Crossover Frequency:	1.3 kHz	
Recommended High Pass:	90 Hz 24 dB / Octave	
Recommended Amplifier :	300W to 450W at 8 ohms	

COAXIAL TRANSDUCERS

Low Frequency:	1 x 6.5" Carbon ring NeverWet™* treated cone, 2" VC
High Frequency:	1 x 1.25" exit compression

PHYSICAL

Input Connection:	NL4 Speakon-type connector and 2-position terminal strip for low impedance or constant voltage operation
Controls:	5-position wattage/low impedance selector switch, Music / speech switch
Enclosure:	ABS plastic, matte finish, paintable
Finish:	Light Grey, Black or White (standard) RAL # 7038, 9004 or 9003
Mounting/Rigging Provisions:	Two M8 rigging points, zinc-rich epoxy dual-layer powder-coated yoke, included integral safety cable mounting point
Grille:	3-layer Weather-Stop™ featuring NeverWet™ treated polyester mesh, foam, zinc-rich dual-layer powder-coated perforated steel color-matched to enclosure
Input Panel Weather Cover:	Color-matched ABS plastic with 13.5mm ID gland nut installed in .82" knockout
Environmental:	IP55W per IEC 529 at 5° down-tilt, designed to MIL-STD-810G
Dimensions – H x W x D:	9" x 10.15" x 10.2" (229 x 258 x 259 mm)
Loudspeaker Unit Weight:	17 lbs (7.7 kg) with included yoke
Shipping Weight:	21 lbs (9.5 kg)

ACCESSORIES

Vari-Tilt™ Mounting Yoke:	R-VTY15. Provides pan-tilt aiming functions. Zinc-rich dual-layer powder-coated steel with SS hardware, color-matched to loudspeaker.

NOTE: All wattage figures are calculated using the rated impedance.
** NeverWet is a registered trademark of NeverWet, LLC.*

Shown with grille removed

Available in Light Grey, Black or White (standard)

APPLICATIONS

- Theme and Amusement Parks
- Outdoor Entertainment Centers
- Malls, Fairgrounds, Race Tracks
- Multipurpose Indoor/Outdoor Venues
- Background Music / Voice Paging Systems
- Athletic Fields
- Swimming Pools
- Convention Centers
- Cruise Ships
- Factories
- Stadiums, Arenas

FEATURES

- Excellent musicality and intelligibility, and low distortion in an extremely compact enclosure
- Weather-resistant, compact, matte finish paintable high impact ABS plastic modified-trapezoidal enclosure
- NeverWet™ treated grille and LF driver cones, polymer HF diaphragm, and moisture-sealed crossover
- Corrosion-resistant zinc-rich epoxy dual-layer powder-coated steel grille and low-profile yoke
- Real compression driver on Tru-Phase™ waveguide
- 120W Autoformer (standard), selectable 8 ohm or 70V/100V operation
- High sensitivity, high output
- Light Grey, Black and White finish standard - Custom colors available upon request.
- Five-year product warranty / Fifteen-year enclosure warranty

DESCRIPTION

The R.15COAX is a two-way, full-range loudspeaker system designed to provide high quality voice and music reproduction in applications requiring extreme weather resistance. It is designed to withstand long-term exposure to tough, environmental conditions and to provide performance normally associated only with indoor loudspeakers. The R.15COAX has a 1.25-inch (32mm) exit HF compression driver and an 6.5-inch (165mm) carbon ring cone LF driver. The HF assembly is coaxially mounted with the LF driver allowing wide 100° coverage with low distortion. The flange-less cone design provides a cone area nearly equivalent to a typical 8-inch driver cone.

The Music / Voice switch provides an out-of-the-box selectable response allowing for additional application flexibility. The design uses Community's proprietary Tru-Phase™ phase plug to provide wide dispersion, low distortion and increased intelligibility. The enclosure is sealed to provide maximum vocal clarity and increased intelligibility. The sealed enclosure also provides supreme weather protection for all of the interior components.

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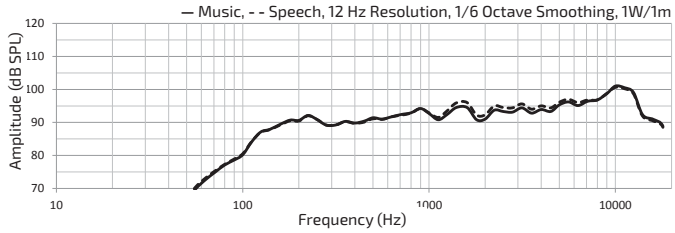
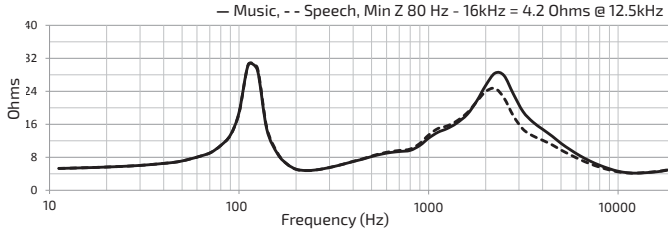
WEATHER-RESISTANT LOUDSPEAKER

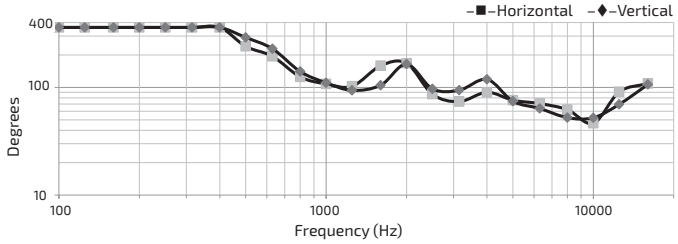
FREQUENCY RESPONSE



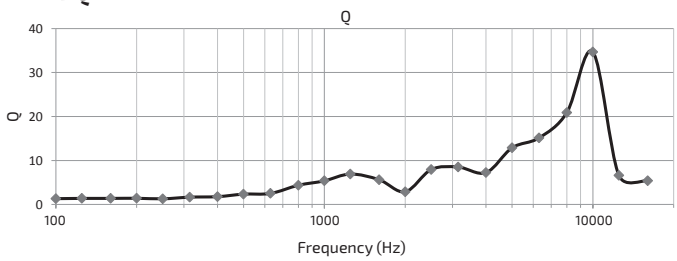
IMPEDANCE



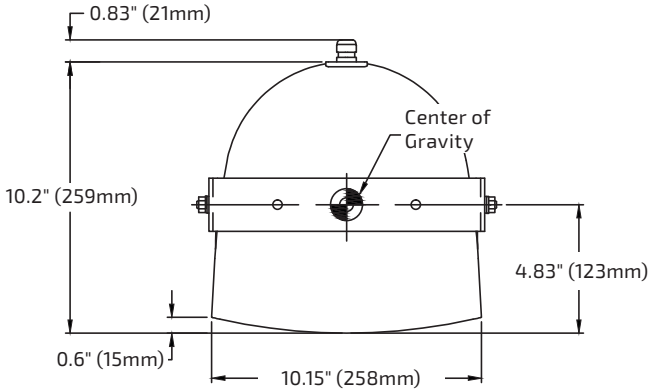
BEAMWIDTH

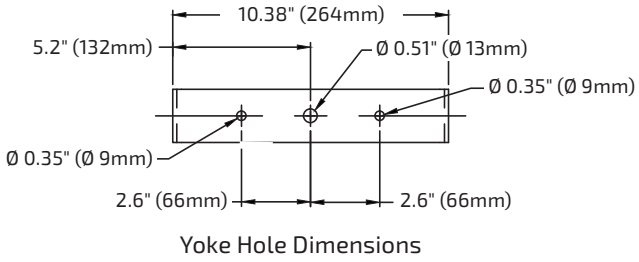


AXIAL Q

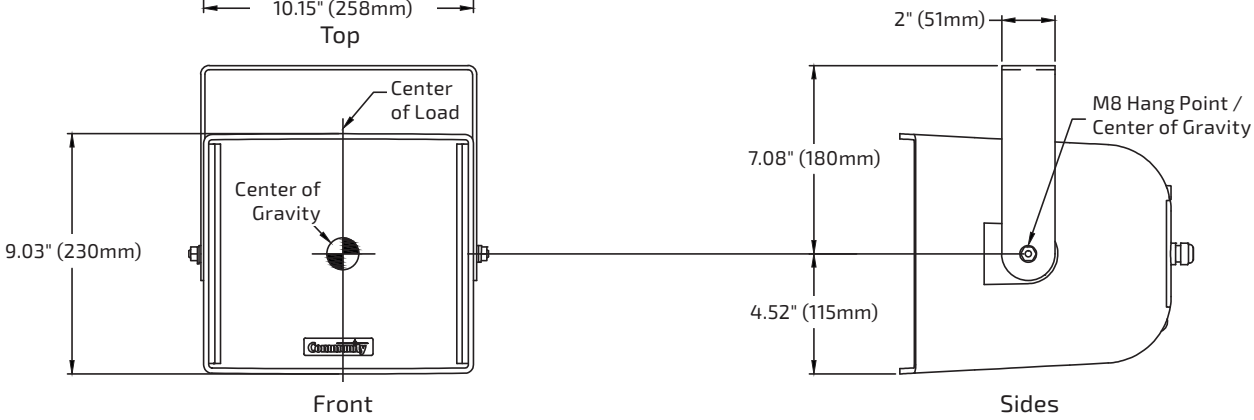


DIMENSIONS





Yoke Hole Dimensions



ARCHITECTURAL SPECIFICATIONS

The loudspeaker system shall be a two-way, full-range modified trapezoidal design with one 6.5-inch (165mm) high-output LF driver and one 1.25-inch (32mm) exit HF driver mounted coaxially. Drivers shall be connected to an integral crossover with a crossover frequency of 1.3 kHz. The input connections shall be an NL4-type connector and a terminal strip. There is also a 2-position switch for voice or music applications and a selector switch for autoformer tap or low impedance operation. The loudspeaker enclosure shall be matte finish high impact ABS plastic with a 1mm perforated steel grille backed by NeverWet™ treated polyester mesh and open cell foam. There shall be two M8 rigging points, and an included steel dual-layer powder-coated mounting yoke. Integrated ribbing and internal reinforcements provide added structural support. The system shall have a frequency response of 125 Hz to 12.5 kHz (-3 dB SPL) and an input capability of 35V RMS. At the music setting, it shall have a sensitivity at 1W / 1m, 8 ohms nominal impedance, of 94 dB (125 Hz - 10 kHz) and 92 dB (250 Hz - 4 kHz). At the voice setting, it shall have a sensitivity at 1W / 1m, 8 ohms nominal impedance, of 95 dB (125 Hz - 10 kHz) and 93 dB (250 Hz - 4 kHz). The nominal dispersion shall be 100° H x 100° V from 2 kHz to 10 kHz. The loudspeaker shall be 9" (229mm) H (front) x 10.2" (259mm) W x 10.2" (259mm) D and shall weigh 17 lbs (7.7 kg) including the mounting yoke.

CAUTION: *Installation of loudspeakers should only be performed by trained and qualified personnel. It is strongly recommended that a licensed and certified professional structural engineer approve the mounting design.*

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