beyma
PROFESSIONAL LOUDSPEAKERS

TD WL-4

Constant Directivity Horn

KEY FEATURES

- Designed to be used with two WL-4 wave guides
- It provides uniform response, on and off-axis with a neutral and natural frequency reproduction
- Coverage angles of 90º in the horizontal plane and 20º in the vertical plane
- Precise directivity control in the pass band
- Cast aluminium construction



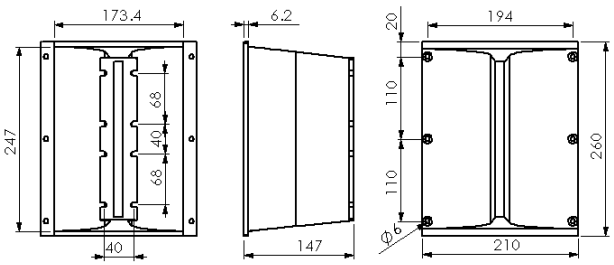
GENERAL DESCRIPTION

This horn has been designed to work specifically with two Beyma WL-4 wave guides providing uniform on and off-axis response. The constant directivity characteristics of this model ensure the ability to cover 90º wide horizontally and 20º wide vertically, at virtually any frequency within its operational range. To ensure freedom of resonance, this flare is constructed of cast aluminium, with flat front finish to facilitate flush mounting.

TECHNICAL SPECIFICATIONS

Throat dimensions (WxH)	12 x 208 mm. 0.47 x 8.19 in.
Horizontal beamwidth	90º (+22º, -46º) (-6 dB, 1.2 - 16 kHz)
Vertical beamwidth	20º (+27º , -15º) (-6 dB, 2 - 16 kHz)
Directivity factor (Q)	60 (average 1.2 - 16 kHz)
Directivity index (DI)	15.5 dB (+7 dB, -8.1 dB)
Cutoff frequency	800 Hz
Dimensions (WxHxD)	210x260x147 mm. 8.27x10.2x5.79 in.
Cutout dimensions (WxH)	174x247 mm. 6.85x9.72 in.
Net weight	1.5 kg. 3.3 lb.
Shipping weight	1.8 kg. 3.96 lb.
Construction:	Cast Aluminum

DIMENSION DRAWINGS

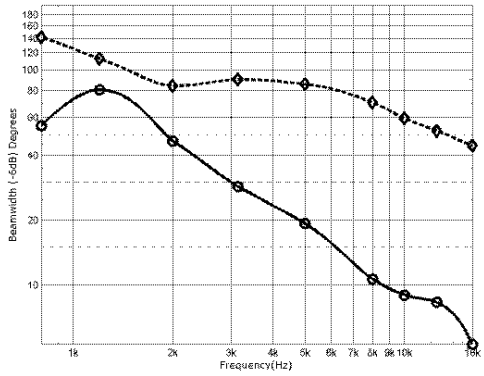


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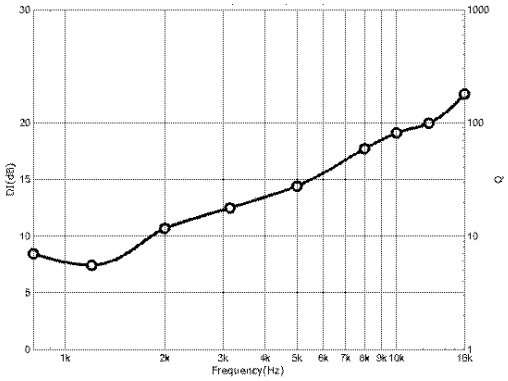
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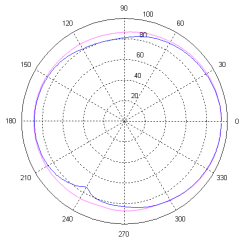
-6 dB BEAMWIDTH *



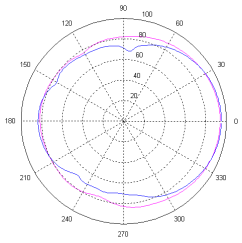
DIRECTIVITY



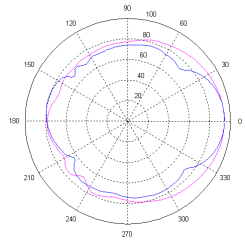
POLAR RESPONSE **



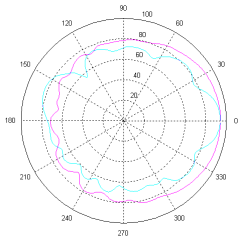
800 Hz



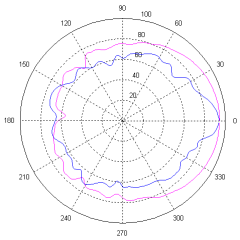
1,25 kHz



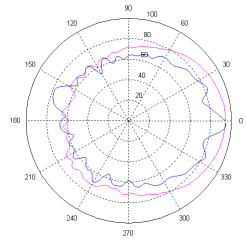
2 kHz



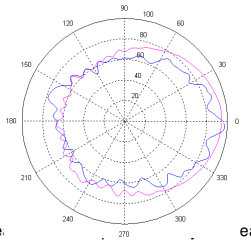
3,1 kHz



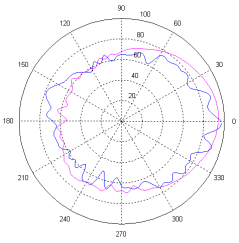
5 kHz



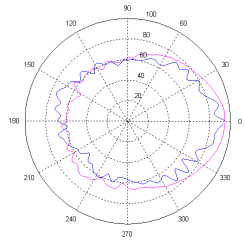
8 kHz



10 kHz



12.5 kHz



16 kHz

Vertical be eavy line.

*Horizontal beamwidth is represented by the discontinuous line.

Notes:

** Horizontal response is represented by the pink line. Vertical response is represented by the blue line.
The polar plots are reproduction of measurements done with single sinusoidal signal tones, at the indicated frequencies.
The microphone was placed 2m. from the horn, and rotation was about the centre of the emitter source.

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Polígono Industrial Moncada II · C/. Pont Sec, 1c · 46113 MONCADA - Valencia (Spain)
· Tel. (34) 96 130 13 75 · Fax (34) 96 130 15 07 · http://www.beyma.com · E-mail: beyma@beyma.com ·