



CRAFTED AUDIO, LLC

BMR46XE

Balanced mode radiator drive unit, 2½ inch

SPECIFICATION SHEET
REVISION A

DESCRIPTION

The BMR46XE is a 2½ inch full-range balanced mode radiator. Rather than moving as a piston, the diaphragm is tuned to bend in controlled modes, which holds dispersion wide and even to the top of the band and keeps phase coherent off axis.

Supplied as a bare drive unit for designers building their own enclosure.

CONSTRUCTION

- High-temperature magnet assembly with full magnetic shielding
- Neodymium motor, available in varying grades
- Square frame — small footprint for the radiating area
- Size and flat front make retrofitting straightforward
- Can be weatherized

ACOUSTIC CHARACTER

- Predictable and even frequency response
- Coherent phase response
- Ultra-wide dispersion — effective in non-ideal locations
- Consistent voicing across the range, so sizes mix freely

PERFORMANCE

Impedance	4 or 8 Ω
Power handling	28 W RMS
Sensitivity	89.0 dB @ 2.83 V / 1 m

THIELE-SMALL

V_{as}	0.208 litre
F_s	184.0 Hz

PHYSICAL

Length	68 mm (2.68 in)
Width	68 mm (2.68 in)
Depth	34.6 mm (1.36 in)
Mass	194 g (6.8 oz)

MOUNTING AND CONNECTION

Baffle cut-out	Ø61 mm (2.40 in)
Terminal, +	Blade 2.9 × 0.32 mm — .110 series
Terminal, −	Blade 5.2 × 0.5 mm — .205 series

Impedance is specified at order. State 4 Ω or 8 Ω on the purchase order; the two share the same frame, cut-out and depth.

Crafted Audio, LLC

8051 N. Tamiami Tr. STE E6, Sarasota, FL 34243 · craftedav.com

WARRANTY — one year from date of shipment against defects in materials and workmanship. Remedy limited to repair or replacement at Crafted's option. Full terms at craftedav.com/warranty.

Balanced mode radiator technology is licensed from Tectonic. Product names of other manufacturers are used only to identify the parts described.

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