



CRAFTED AUDIO, LLC

BMR56XE

Balanced mode radiator drive unit, 3 inch

SPECIFICATION SHEET
REVISION A

DESCRIPTION

The BMR56XE is a 3 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
- Flat front simplifies grille and baffle design
- 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}	0.694 litre
F_s	135.3 Hz

PHYSICAL

Length	80 mm (3.15 in)
Width	80 mm (3.15 in)
Depth	39.6 mm (1.56 in)
Depth, hard point	37.6 mm (1.48 in)
Mass	256 g (9.0 oz)

MOUNTING AND CONNECTION

Baffle cut-out	$\varnothing 72$ mm (2.83 in)
Terminal, +	Blade 2.9 $\times$ 0.32 mm — .110 series
Terminal, -	Blade 5.2 $\times$ 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.

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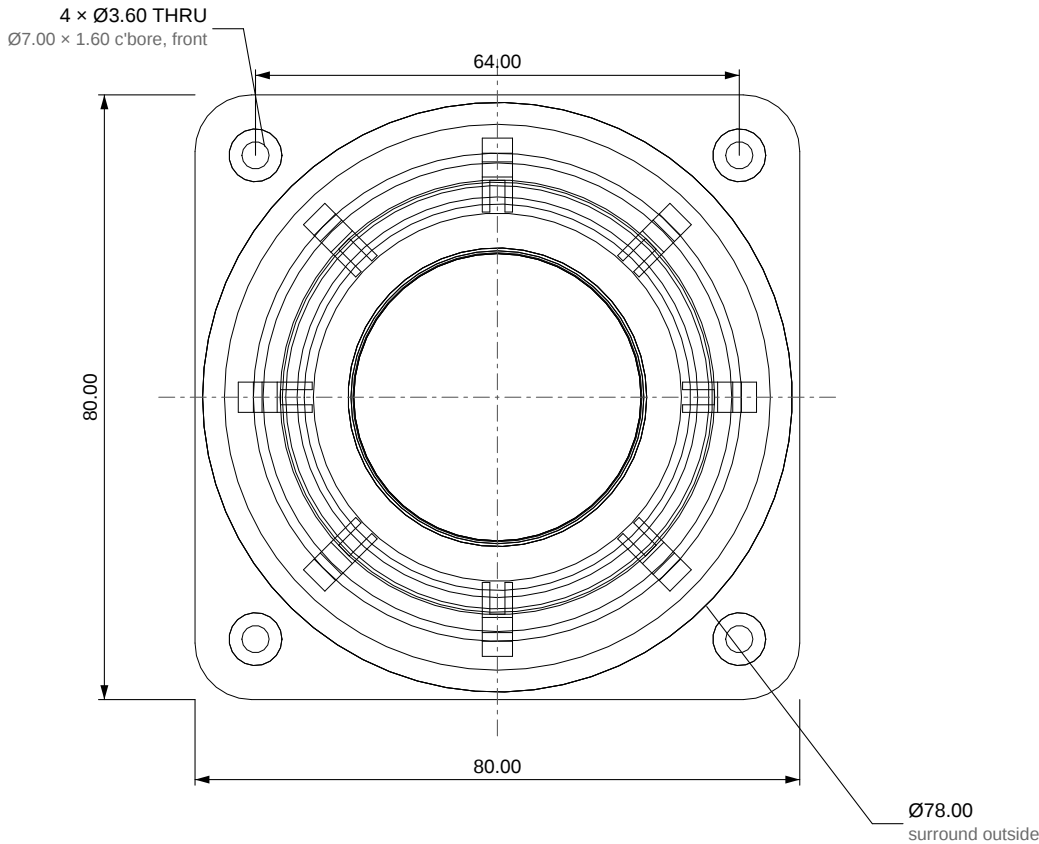
8051 N. Tamiami Tr. STE E6, Sarasota, FL 34243 · craftedav.com

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.

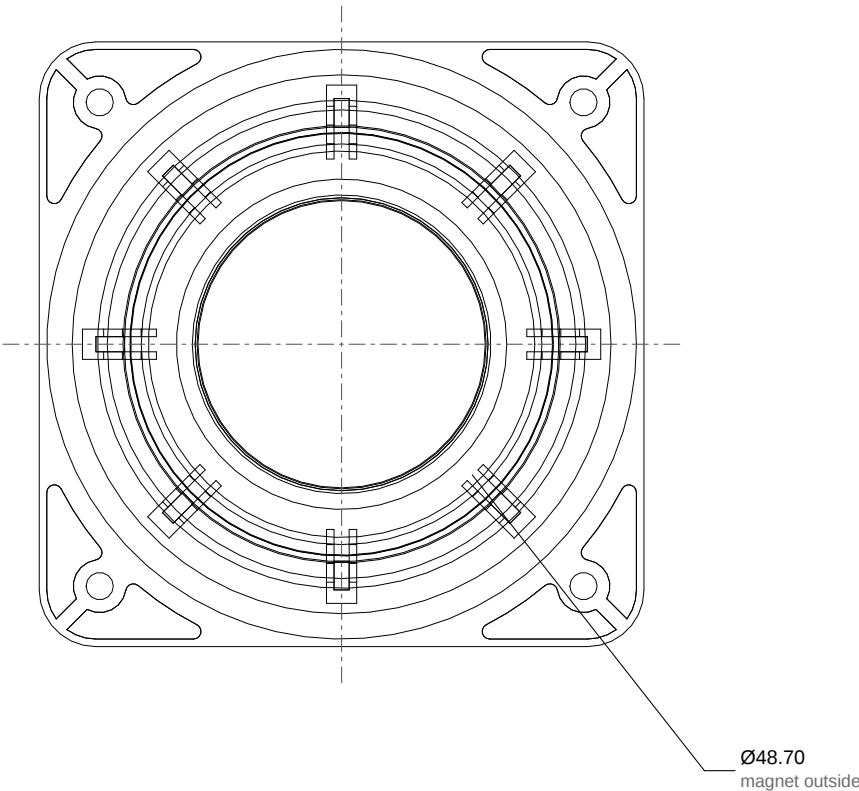
Balanced mode radiator technology is licensed from Tectonic. Product names of other manufacturers are used only to identify the parts described.

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REV A
ISSUED 2026-08-30

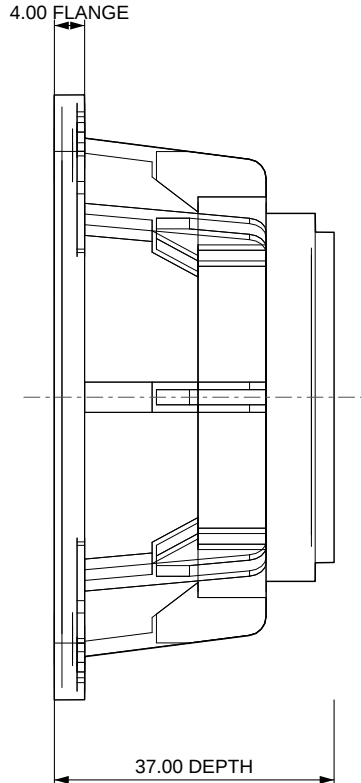
MOUNTING FACE 1:1 — print at 100% on 11 × 17 as a drilling template



REAR



SIDE exterior profile



MECHANICAL

Frame	80.00 × 80.00 square
Depth	37.00 overall, 4.00 flange
Radiating face	Ø78.00 surround, Ø57.50 plate
Magnet	Ø48.70 neodymium, shielded
Mass	256 g (published)

MOUNTING

Fixing	4 × Ø3.60 through the flange
Pattern	64.00 × 64.00 square
Counterbore	Ø7.00 × 1.60 in the front face
Cut-out	Ø72.0
Screws	M3 — supplied by others

ELECTRICAL

Impedance	4 Ω or 8 Ω — specified at order
Power	28 W RMS
Sensitivity	89.0 dB @ 2.83 V / 1 m
Fs	135.3 Hz
Vas	0.694 litre

NOTES

- All dimensions in millimetres. Views are 1:1 — print at 100% on 11 × 17 and the MOUNTING FACE view is a drilling template.
- The counterbores are in the front face — the flange sits flat on the baffle and the screw heads finish flush.
- The 4 Ω and 8 Ω units share this frame, cut-out and depth. State the impedance on the purchase order.
- Balanced mode radiator supplied under licence from Tectonic Audio Labs.



BMR56XE Drive Unit

Balanced mode radiator, 3 inch

8051 N. Tamiami Tr. STE E6, Sarasota, FL 34243

PART NUMBER BMR56XE	SCALE 1:1	SHEET 1/1	ISSUED 2026-08-29
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Dimensions and figures are subject to change without notice.