MKC50

2-Way Coaxial Loudspeaker

- Highly versatile, compact coaxial loudspeaker
- 1 in Dome tweeter provides superior dispersion, fidelity and output
- Flexible accessory solutions for wall, ceiling or pole mount applications
- Weather protection and transformer options
- Companion UXA4401 Amplifier

OVERVIEW

The MKC series represents a major evolution of coaxial loudspeakers. Available as standard in black or white, the MKC series offers a full-suite of driver sizes allowing the series to span a powerful index of installation applications and configurations. The enclosures can be deployed in either horizontal or vertical orientations through the use of an pan & tilt wall bracket. Other deployment options include a ceiling and mic stand mount.

With an innovative new port design and top of the line 1 in dome tweeter, MKC50 offers pristine audio output, similar to that of a professional studio monitor.

TECHNOLOGIES

Beamwidth Matched Crossovers Introduced over a decade ago for our MK series loudspeakers, EAW Engineers use carefully-designed HF horns and crossovers to eliminate polar irregularities through the crossover point.

Focusing™ Use of advanced digital signal processing to perfect the impulse response of a loudspeaker in the time domain. Eliminating horn "honk" and splashiness, this makes the loudspeaker sound like a studio monitor instead of a "PA" speaker.

DynO™ Dynamic Optimization actively tracks input spectrum and power delivery, continually wicked maximizing output and fidelity at any drive level.

Symmetry of Sources™ Symmetrical arrangement of acoustic sources along a common axis for utmost consistency throughout the coverage pattern.

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EAW EASTERN ACOUSTIC WORKS

TECHNICAL SPECIFICATIONS

2-WAY COAXIAL LOUDSPEAKER

PERFORMANCE	
Max SPL[1] (12 dB Crest Factor)	121dB
Max SPL[1] (6 dB Crest Factor)	115dB
Operating Range[2]	80Hz-20kHz
Nominal Beamwidth[3]	110 degrees conical
Axial Sensativity	87dB, 80Hz-20kHz
Calculated Axial Output	109dB average, 121dB peak
Nominal Phase	±15° from ideal high-pass filter
Input Impedance	8 ohms nominal, 6.2 ohms @ 15kHz minimum
Recommended HPF	80Hz 12dB/oct
ACCELERATED LIFE TEST [4]	
LF/HF	150W @ 8ohms
CONFIGURATION	
LF Transducer, Loading	1x5.25in cone, 1.25in VC, Vented
HF Transducer, Loading	1x1in dome tweeter, coaxial
Operating Modes	Single-Amp (LF/HF, DSP w/ EAW Focusing & DynO)
PHYSICAL	
Physical Rigging	3x pairs of M6 threaded points for pole or microphone stand mount adapters 4x M5 threaded pattern for wall or ceiling mount bracket
Dimensions (HxWxD)	9.3 x 6.5 x 5.6in (235 x 165 x 141mm)
Net Weight	7.2 lbs (3.3kg)
Shipping Weight	Approx. 20 lbs. (9kg) [Sold/Shipped in Pairs]
Mounting Accessories	Pan/Tilt Bracket (included in box) 5:1 Design factor Metal wall mount Pan/Tilt bracket Ceiling mount bracket (uses included pan/tilt bracket)
Input Connector	1x Neutrik NL4, 2-pin barrier strip

1 Calculated peak SPL at 1m with stated crest factor pink noise. Specified as whole space (free field) for full range loudspeakers, half space for subwoofers.

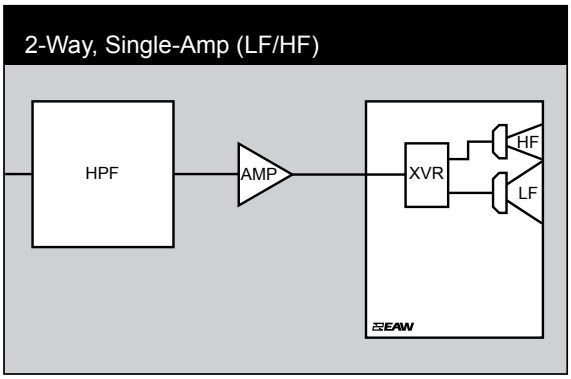
2 Operating Range: Range where the processed Frequency Response stays within -10 dB SPL of the power averaged SPL within this range; measured on the geometric axis. Narrow band dips are excepted.

3 Nominal Beamwidth: Design angle for the -6 dB SPL points, referenced to 0 dB SPL as the highest level.

4 Accelerated Life Test: Maximum test input voltage applied with an EIA-426B defined spectrum; measured with recommended signal processing and Recommended Protection Filter.

INPUT

SIGNAL



LEGEND

LF/MF/HF:	Low Frequency / Mid Frequency / High Frequency.
AMP:	User Supplied Power Amplifier
XVR:	Passive LPFs, HPFs, and EQ integral to the loudspeaker.
EAW Focusing:	Digital Signal Processor capable of implementing EAW Focusing.

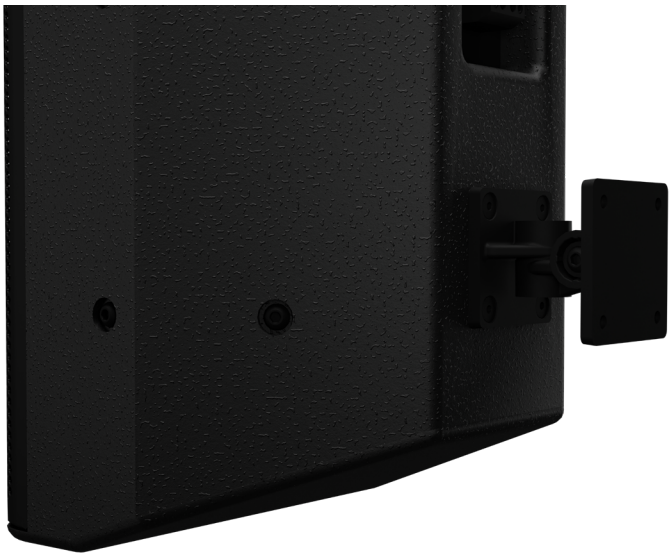
RECOMMENDED AMPLIFIER CONFIGURATION

SINGLE-AMP

MODEL	PER CHANNEL	PER AMPLIFIER
UXA4401	1	4
UXA4403	4	16

EAW strongly recommends utilizing the processing setting to take full advantage of your speakers. Pair with EAW UXA Amps for the best performance of EAW Core Technologies

RIGGING CONFIGURATION

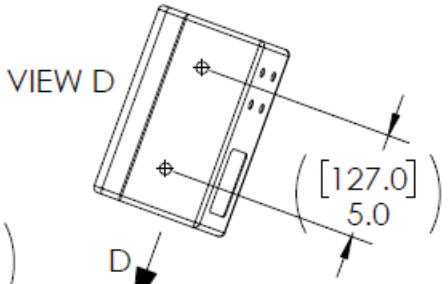


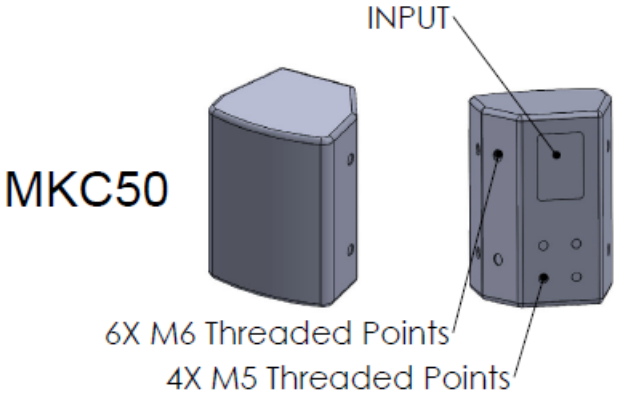
MOUNTING HARDWARE

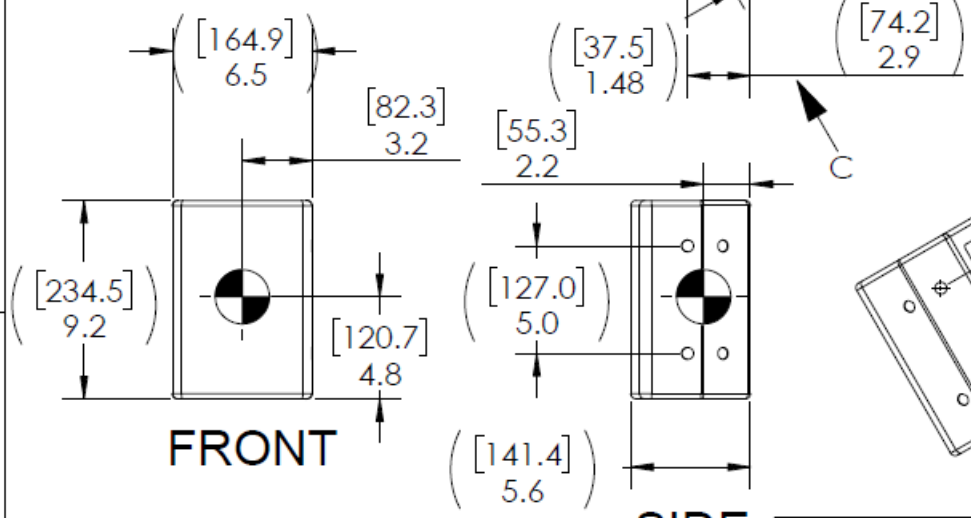
EAW

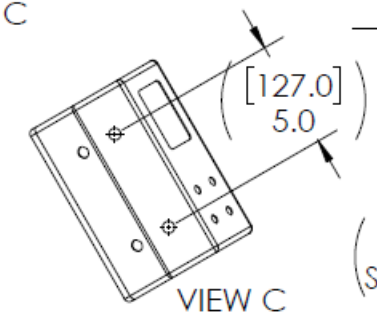
DESCRIPTION	PART NUMBER
Pan & Tilt Bracket	(shipped with product)
Ceiling Bracket	

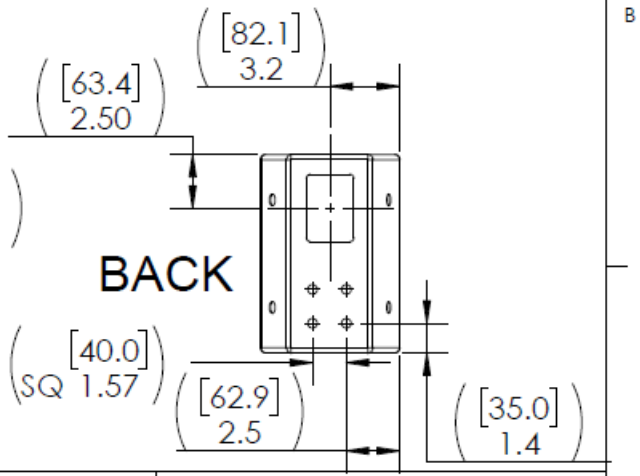
REVISIONS		
REV	DESCRIPTION	APPR / DATE
1	ECOEAW1098	1/13/23











NOTES:
1. DRAWING APPLIES TO MKC50.
2. SUSPENSION WITH SUPPLIED PAN/TILT BRACKET YIELDS A MINIMUM FOS OF 7:1.
3. SYMBOL ⊕ INDICATES CENTER OF GRAVITY.
4. WEIGHT APPROXIMATELY 7.7LBS [3.5KG]
5. SHIPPING WEIGHT (pair) APPROXIMATELY 18.1LB [8.2KG]

THIRD ANGLE PROJECTION

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

TOLERANCE IN MILLIMETERS
X.±.8 X.X±.4 X.XX±.15
FRACTIONS ±1/32
ANGLES ±1/2°
(X.XX) = REF DIMS
NO TOLERANCE IMPLIED

TSC = THEORETICAL SHARP CORNER

DIMENSIONS ACROSS CENTERLINES TO BE SYMETRICAL

EAW EASTERN ACOUSTIC WORKS
ONE MAIN STREET WHITINSVILLE, MA 01588 USA

TITLE: DWG CUSTOMER MKC50 [MECHANICAL SPECIFICATION]

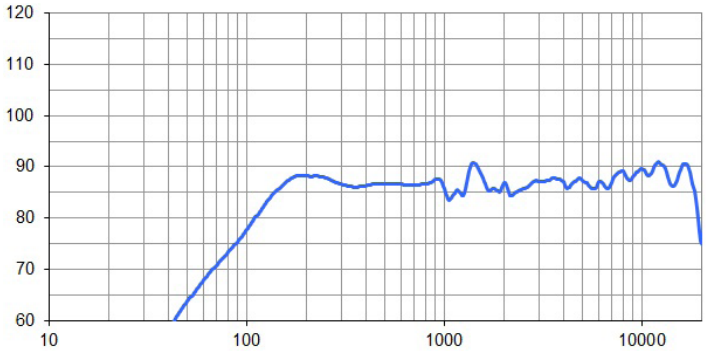
A	SHEET 1 OF 1	SCALE: 1:8

DWG. NO. 2071463-CD REV 1

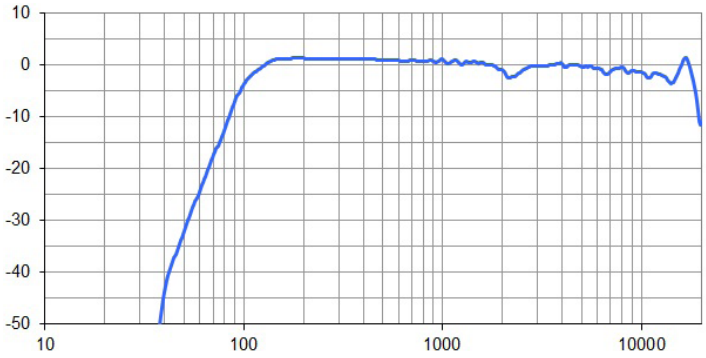
SOLID WORKS
2071463-CD 100 DWG CUSTOMER MKC50

PERFORMANCE GRAPHS

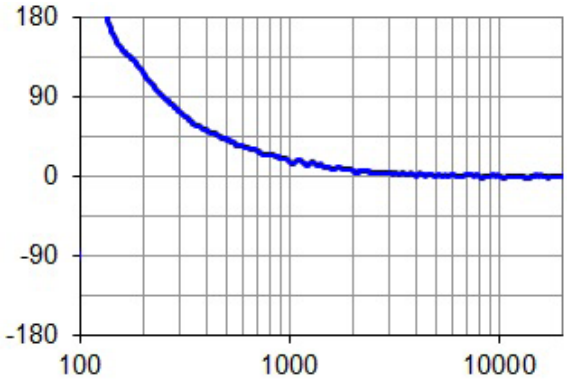
FREQUENCY[1] ■=Overall Response Unprocessed



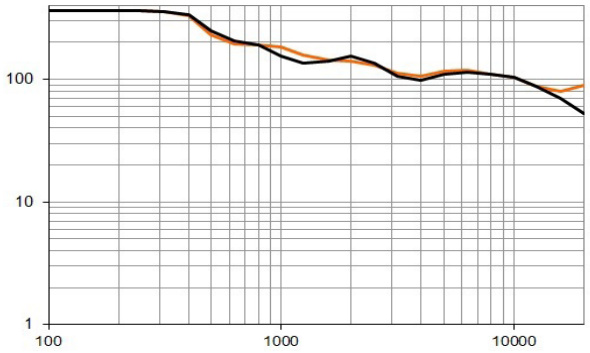
FREQUENCY[1] ■=Overall Response Processed



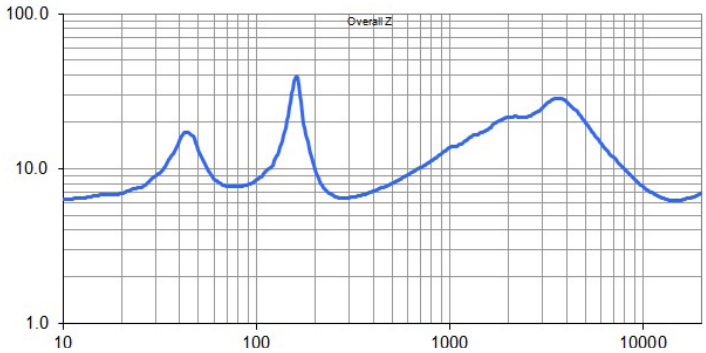
PHASE LINEARITY



BEAMWIDTH[2] ■=Horizontal ■=Vertical



IMPEDANCE



1 Variation in acoustic output level with frequency for a constant input signal. Processed: normalized to 0 dB SPL. Unprocessed inputs: 2 V (4 ohm nominal impedance), 2.83 V (8ohm nominal impedance), or 4 V (16 ohm nominal impedance) referenced to a distance of 1 m.

2 Average angle for each 1/3 octave frequency band where, starting from the rear of the loudspeaker, the output first reaches -6 dB SPL referenced to 0 dB SPL as the highest level. This method means the output may drop below -6 dB SPL within the beamwidth angle.