

# MKD526

## 2-Way Full-Range Dual-Woofer Loudspeaker

- ▶ High-output for size, passive two-way performance
- ▶ Ultra compact multipurpose loudspeaker
- ▶ Flexible accessory solutions for numerous applications
- ▶ Weather protection and transformer options
- ▶ Rear Panel Pin Select Switch

### OVERVIEW

The MKD526 installation loudspeaker is engineered to deliver the high output, broadband pattern control and exceptional fidelity perfect for but not limited to front fills, under balcony fills, corporate events, and bars/restaurants.

MKD526 builds on EAW's long standing tradition of exceptional installation focused loudspeakers developed in partnership with consultants and sound system integrators worldwide. The compact durable Baltic birch enclosure provides for easy installation with an array of accessories including a u-bracket, yoke, and ceiling bracket. MKD526 also offers weather protection options, custom colors, and a small profile allow for concealed installations in the most visually sensitive environments.



### 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 wicking 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.



## TECHNICAL SPECIFICATIONS

### 2-WAY 2 X 5" ULTRA COMPACT LOUDSPEAKER

| PERFORMANCE                               |   |
|---|---|
| Max SPL <sup>1</sup> (12 dB Crest Factor) | 127dB   |
| Max SPL <sup>1</sup> (6 dB Crest Factor)  | 121dB   |
| Operating Range <sup>2</sup>              | 75Hz-20kHz  |
| Nominal Beamwidth <sup>3</sup>            | 120 x 60 degrees, rotatable   |
| Axial Sensitivity                         | 91dB, 75Hz-20kHz  |
| Calculated Axial Output                   | 115dB average   |
| Nominal Phase                             | ±15° from ideal high-pass filter  |
| Input Impedance                           | 8 ohms nominal, 7.4 ohms @ 270Hz Minimum  |
| Recommended HPF                           | 75Hz, 12dB/oct  |
| ACCELERATED LIFE TEST <sup>4</sup>        |   |
| LF/HF                                     | 45V<br>250W@8ohms   |
| CONFIGURATION                             |   |
| LF Transducer                             | 2x5.25" Cone, 1.25" VC  |
| HF Transducer                             | 1x1-in exit, 35mm voice coil compression driver, Horn loaded                            |
| Operating Modes                           | LF/HF, DSP w/ EAW Focusing & DynO   |
| PHYSICAL                                  |   |
| Physical Rigging                          | 12 x M6 Threaded Points for use with mounting accessories                               |
| Dimensions (HxWxD)                        | 5.25 x 16.5 x 8.77in (133 x 419 x 223mm)  |
| Net Weight                                | 16.7 lbs (7.6kg)  |
| Shipping Weight                           | Approx 19.7 lb (8.9kg)  |
| Mounting Accessories                      | U-Bracket<br>Yoke-Bracket<br>Ceiling Mount Bracket<br>Metal Wall Mount Pan/Tilt Bracket |
| Input Connector                           | 3x Nuetrik NL4  |

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.

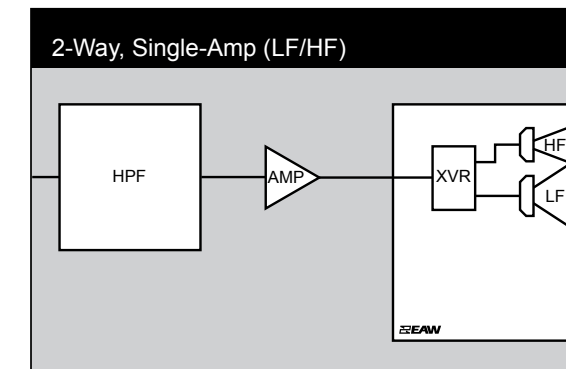
3 Nominal Beamwidth: Design angle for the -6 dB SPL points, referenced to 0 dB SPL as the highest level.

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 –or– Integral Amplifier for NT products.
- 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 | -           | 2 (Bridged CH) |
| UXA4403 | 3           | 12             |

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

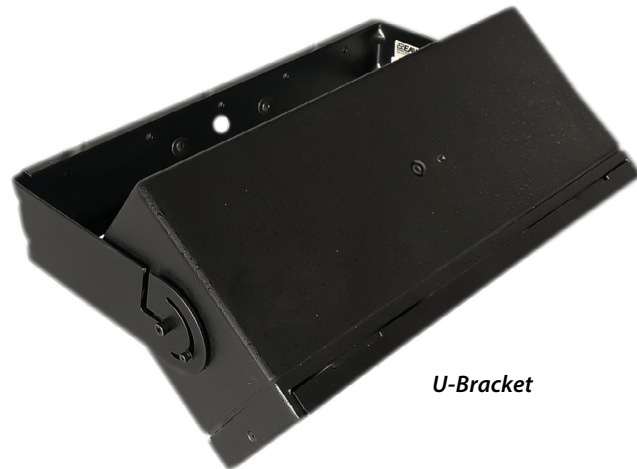


Yoke Mount

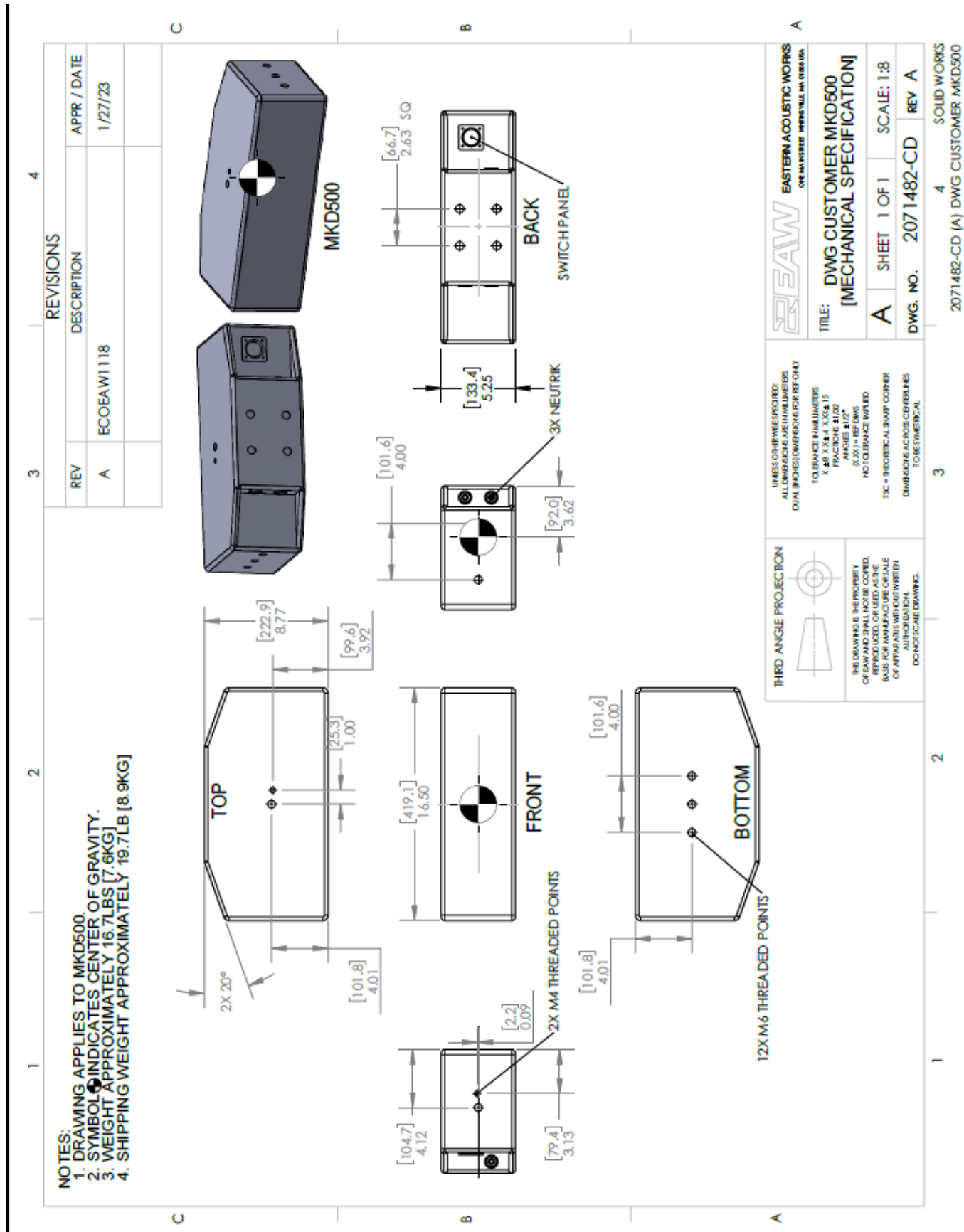
MOUNTING HARDWARE

EAW

| DESCRIPTION     | PART NUMBER |
|-----------------|-------------|
| U-Bracket       | 2071721-90  |
| Yoke            | 2071722-90  |
| Ceiling Bracket | -           |
| Under Balcony   | 2071723-90  |

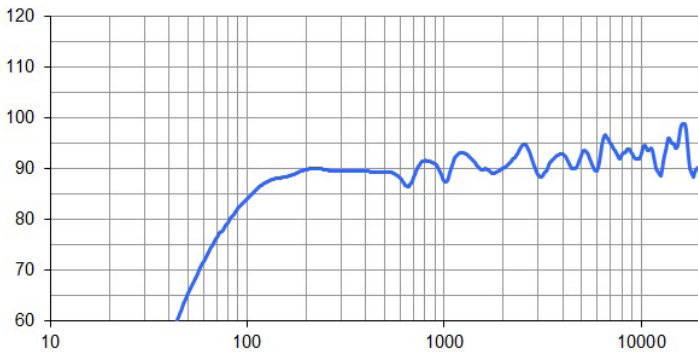


U-Bracket

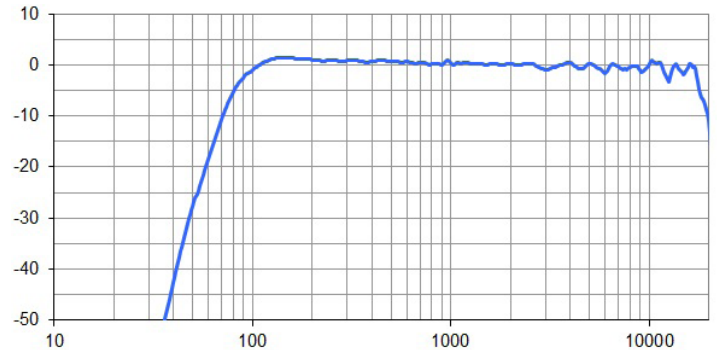


**PERFORMANCE GRAPHS**

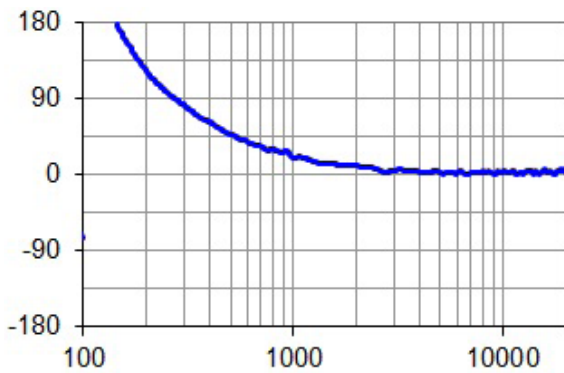
**FREQUENCY<sup>1</sup>** ■=Overall Response Unprocessed



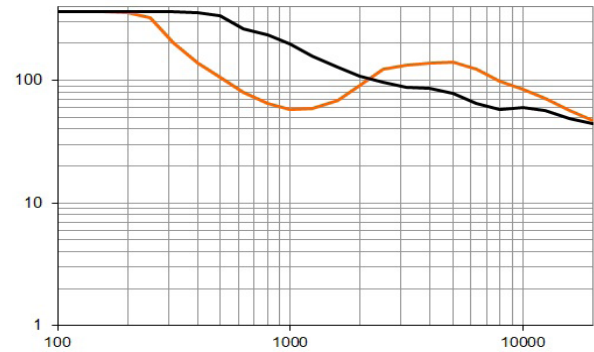
**FREQUENCY<sup>1</sup>** ■=Overall Response Processed



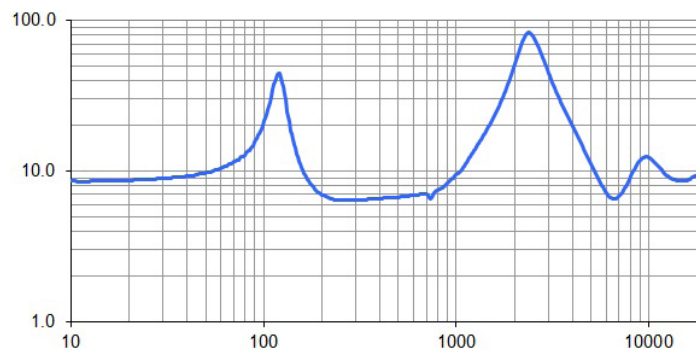
**PHASE LINEARITY**



**BEAMWIDTH<sup>2</sup>** ■=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.