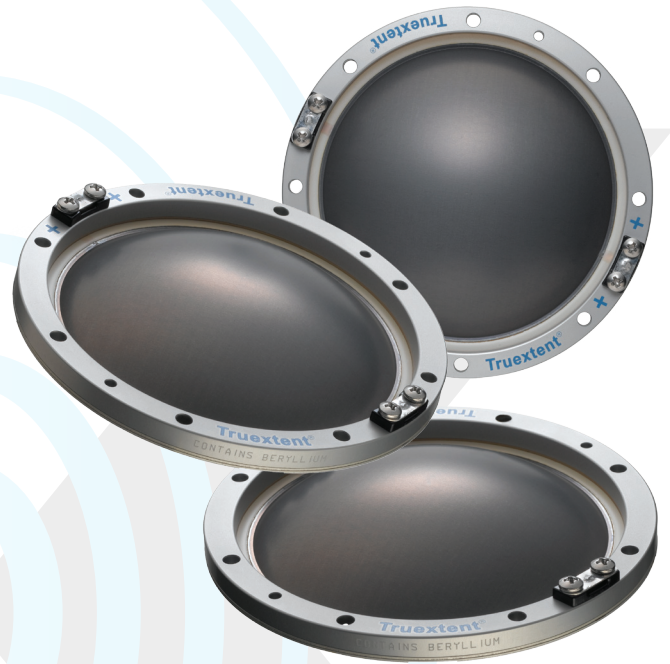


Replacement Diaphragms for Large Format Compression Drivers

The Truextent® BeX4008/4016 precision replacement diaphragm is engineered to fit a variety of large format compression drivers including JBL and Radian models (see table). Each diaphragm provides high efficiency and clarity of sound with extended bandwidth compared to the factory original or other aftermarket diaphragms. All Truextent BeX diaphragms deliver superior reliability, repeatability and value.

The diaphragm domes are formed from Genuine Truextent brand Acoustic Beryllium bonded to pure aluminum edgewound voicecoils with a Kapton® former utilizing proprietary bonding methods. Truextent Acoustic Beryllium is the lightest and stiffest of all commercially available dome materials giving the diaphragm a low overall moving mass, greatly improving responsiveness while remaining rigid over a wide frequency range. Additionally the BeX has the highest speed of sound through the dome, and thus the highest break-up mode.

The Truextent BeX suspension is constructed from PEEK rather than a one-piece metal dome and surround, enhancing the reliability and eliminating metal fatigue that can destroy traditional driver products. The PEEK surround is designed to provide excellent damping for smooth low distortion linear output with excellent transient response.



Available for JBL, Radian and other 4" Voicecoil Compression Drivers

- Truextent Brand Acoustic Beryllium
- Precision Tolerances
- Superior Reliability and Repeatability
- Consistency – Easy to Match Sets
- Extended Lifespan
- Clarity of Sound

ELECTROFUSION

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MATERION CORPORATION

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TrueXtent® BeX4008/4016

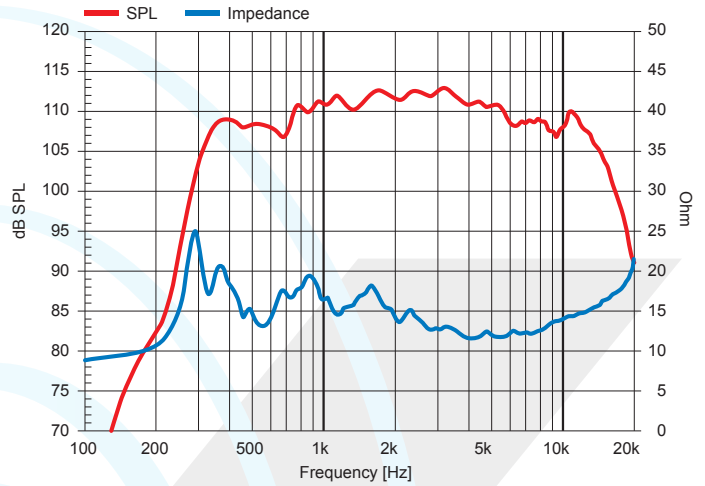
SPECIFICATIONS

Frequency Range500Hz - 20kHz
 AES Power *..... 100WV
 Program Power200WV
 Sensitivity **..... 111dB SPL @ 1W/1m
 Recommended Crossover..... 1,000Hz, 12dB/octave
 Nominal Impedance (BeX4016 / BeX4008) 16 / 8 ohms
 Minimum Impedance (BeX4016 / BeX4008)... 12 / 6.5 ohms @ 4kHz
 D.C. Resistance (BeX4016 / BeX4008)..... 8.1 / 4.2 ohms (± 8%)
 Voice Coil Diameter..... 4" (100mm)
 Voice Coil Material..... Edgewound Aluminum
 Diaphragm Material Genuine Truextent Acoustic Beryllium
 Diaphragm Suspension..... PEEK
 Polarity Positive voltage at + terminal moves
diaphragm away from phase plug***
 Dimensions 5" (127mm) outside diameter
 8 Screw Holes on 4.625" (117.5mm) bolt circle

* AES2-1984-r2003 1kHz - 10kHz

** Measured on a JBL 2450J compression driver with a JBL 2386 horn

*** Radian 950-PB compression drivers are magnetized with opposite polarity

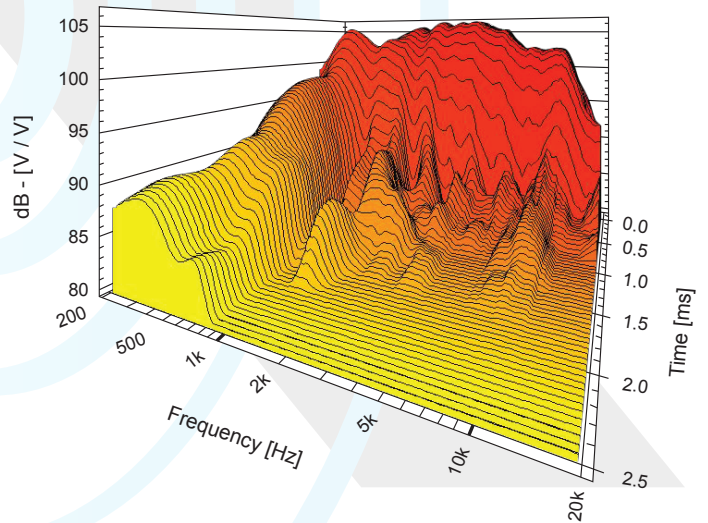


SPL and Impedance vs Frequency of BeX4016 diaphragm measured on a JBL 2450J driver and 2386 horn at 1W/1m.

APPLICATIONS

MAKE	DRIVER MODEL	BeX REPLACEMENT	ORIGINAL FACTORY DIAPHRAGM
JBL	2440	BeX4016	D16R2440
JBL	2441	BeX4016	D16R2441
JBL	2445H/J	BeX4008/16	D8/D16R2445
JBL	2446H/J	BeX4008/16	D8/D16R2450
JBL	2447H/J	BeX4008/16	D8/D16R2450
JBL	2450H/J	BeX4008/16	D8/D16R2450
JBL	2451H/J	BeX4008/16	D8/D16R2450
JBL	375H	BeX4016	D16R2440
JBL	376H	BeX4016	No Longer Available
JBL	5A360	BeX4016	D16R2440
JBL	5P350	BeX4016	D16R2440
JBL	5P360	BeX4016	D16R2440
JBL	M111427	BeX4016	D16R2440
RADIAN	950-PB/8, 16	BeX4008/16	I245-8, -16

Cumulative Spectral Decay



Lighter Stiffer Faster

Since 1990, Materion Electrofusion has been supplying Acoustic Beryllium to the majority of transducer manufacturers who utilize genuine beryllium in their designs. We currently supply 100% of the TrueXtent® brand acoustic beryllium domes, foils and assemblies around the globe.

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Kapton is a registered trademark of E.I.
 DuPont de Nemours and Company

TDS 20-03 10/2012