

Replacement Diaphragms for Large Format Compression Drivers

The Truextent® BeX™ precision replacement diaphragm is engineered to fit a variety of 3" voicecoil compression drivers. 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 B&C Speakers 3" Voicecoil Compression Drivers

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

ELECTROFUSION

44036 South Grimmer Boulevard
Fremont, CA 94538-6346
+1 510.661.9755
truextent@materion.com

MATERION CORPORATION

www.materion.com/electrofusion



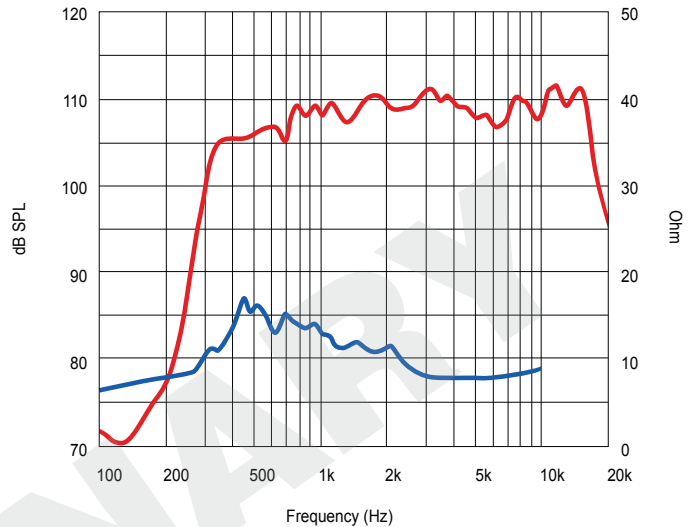
Truextent® BeX™ Diaphragm

SPECIFICATIONS

Frequency Range800Hz - 20kHz
 AES Power *.....80W
 Program Power160W
 Sensitivity **..... 109dB SPL @ 1W/1m
 Recommended Crossover..... 1,000Hz, 12dB/octave
 Nominal Impedance (BeX3008 / BeX3016)..... 8/16 ohms
 Minimum Impedance (BeX3008 / BeX3016) 8.1/12ohms @ 4kHz
 D.C. Resistance (BeX3008 / BeX3016) 6.0/8.1 ohms (± 8%)
 Voice Coil Diameter.....3" (75mm)
 Voice Coil Material..... Edgewound Aluminum
 Diaphragm Material Genuine Truextent Acoustic Beryllium
 Diaphragm Suspension..... PEEK
 Polarity Positive voltage at + terminal moves
 diaphragm towards phase plug
 Dimensions4" (102mm) outside diameter

* AES2-1984(r2003) 1kHz - 10kHz

** Measured on a B&C DE850TN compression driver with a JBL 2386 horn



SPL and Impedance vs Frequency of BeX diaphragm measured on a B&C DE850TN driver and a JBL 2386 horn at 1W/1m.

APPLICATIONS

MAKE	DRIVER MODEL	BeX REPLACEMENT	ORIGINAL FACTORY DIAPHRAGM
B&C	DE700	BeX3008/16	MMD75TN8/16
B&C	DE800	BeX3008/16	MMD8008M/16M
B&C	DE820TN	BeX3008/16	MMD3CTN8M/16M
B&C	DE850TN	BeX3008/16	MMD3CTN8M/16M
B&C	DE900TN	BeX3008/16	MMD900TN8/16
B&C	DE920TN	BeX3008/16	MMD3CTN8M/16M

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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Truextent is a registered trademark and BeX is a trademark of Materion Brush Inc.

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

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