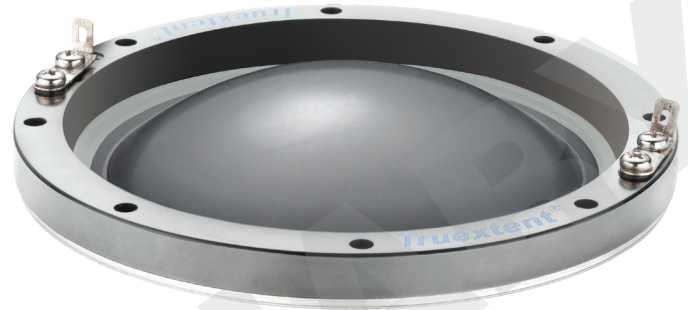


Replacement Diaphragms for Large Format Compression Drivers

The Truextent® BeX™ precision replacement diaphragm is engineered to fit the TAD® TD-4000 series of 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 the TAD TD-4000 Series 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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truextent@materion.com

MATERION CORPORATION

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SPECIFICATIONS

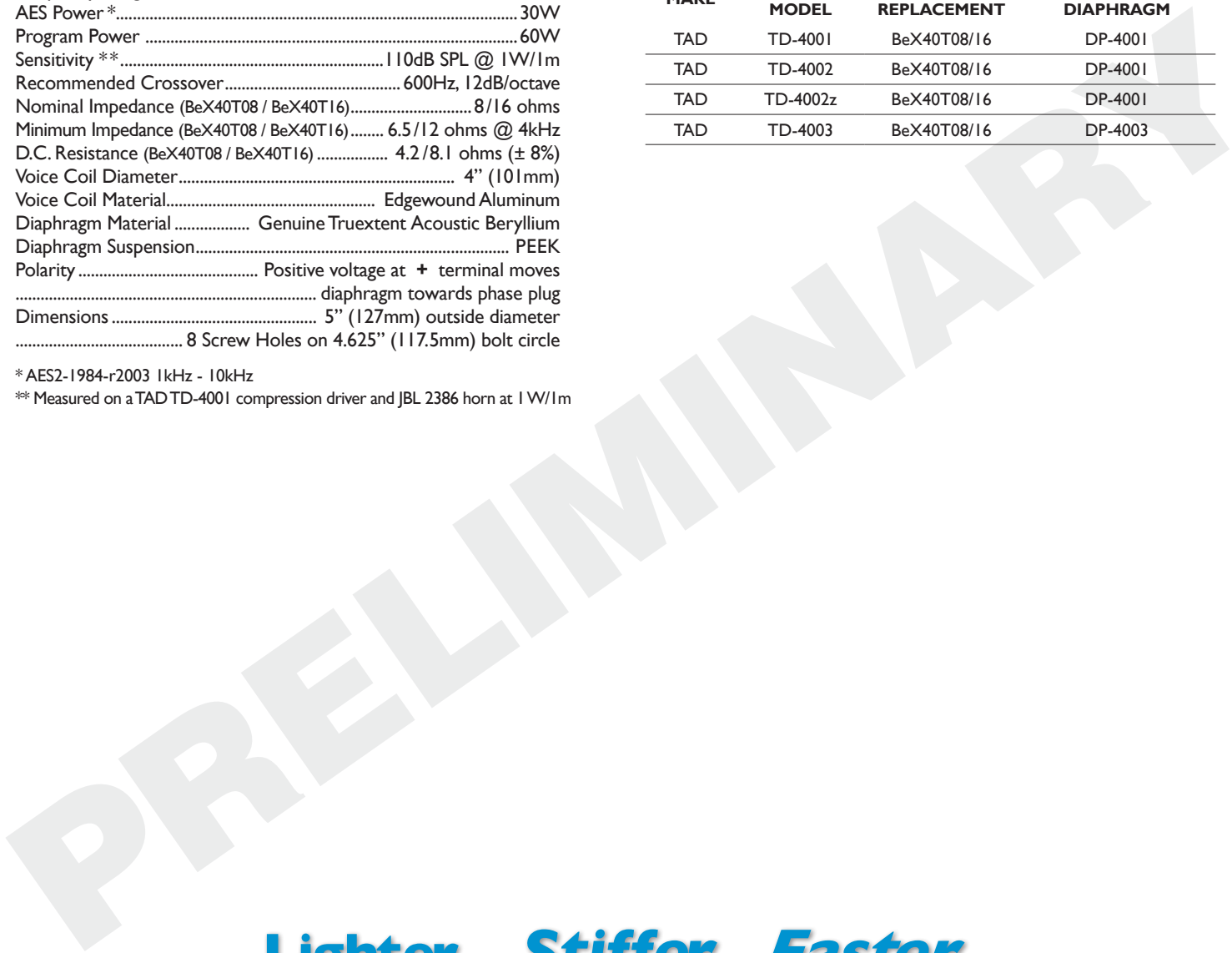
Frequency Range 600Hz - 20kHz
 AES Power* 30W
 Program Power 60W
 Sensitivity** 110dB SPL @ 1W/1m
 Recommended Crossover 600Hz, 12dB/octave
 Nominal Impedance (BeX40T08 / BeX40T16) 8/16 ohms
 Minimum Impedance (BeX40T08 / BeX40T16) 6.5/12 ohms @ 4kHz
 D.C. Resistance (BeX40T08 / BeX40T16) 4.2/8.1 ohms (± 8%)
 Voice Coil Diameter 4" (101mm)
 Voice Coil Material Edgewound Aluminum
 Diaphragm Material Genuine Truextent Acoustic Beryllium
 Diaphragm Suspension PEEK
 Polarity Positive voltage at + terminal moves diaphragm towards 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 TAD TD-4001 compression driver and JBL 2386 horn at 1W/1m

APPLICATIONS

MAKE	DRIVER MODEL	BeX REPLACEMENT	ORIGINAL FACTORY DIAPHRAGM
TAD	TD-4001	BeX40T08/16	DP-4001
TAD	TD-4002	BeX40T08/16	DP-4001
TAD	TD-4002z	BeX40T08/16	DP-4001
TAD	TD-4003	BeX40T08/16	DP-4003



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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 BeX is a trademark of Materion Brush Inc.
 TAD is a registered trademark of Pioneer
 Kabushiki Kaisha DBA Pioneer Corporation
 Kapton is a registered trademark of E.I.
 DuPont de Nemours and Company

TDS 20-05 05/2012