

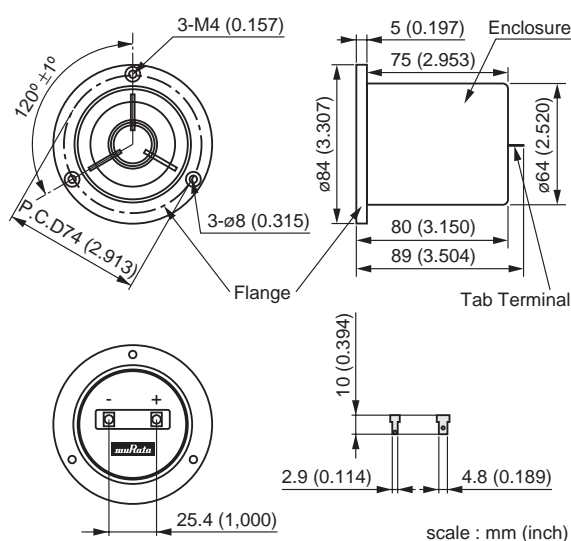
muRata

ESTD01

1. 20mm (0.8") hemispherical piezoelectric ceramic super tweeter
2. The frequency range extends up to 100kHz.
3. The superlative transient and wide directivity
4. No additional network is necessary.
5. Effective for all audio sources

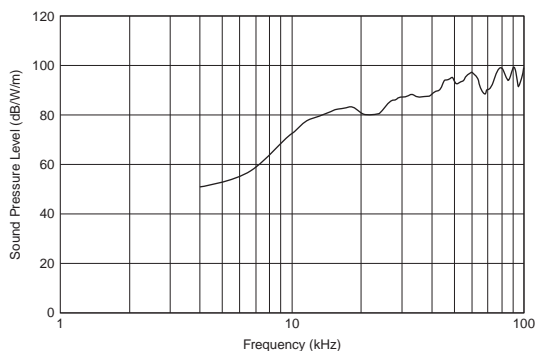


Hi-Fi speaker systems for home entertainment

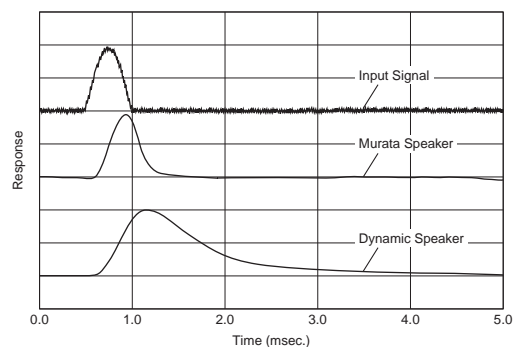


*1 Designates the typical value of the resonant frequency of hemispherical piezoelectric ceramics.
*2 Designates the average of sound pressure level measured at predetermined frequency points within the frequency range.
*3 White-noise signal at voltage 1W in 8 ohm.
*4 With pink-noise signal at rated voltage (20W in 8 ohm) for a continuous period of 100 hours.
*5 With pink-noise signal at maximum voltage (50W in 8 ohm) for a period of 1 minute repeated 10 times with intervals of 2 minutes between application of the signal.

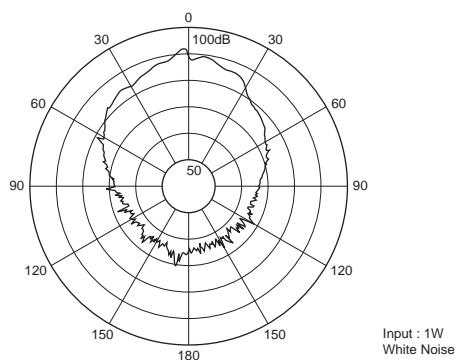
■ Frequency Characteristics



■ Transient Characteristics/Diaphragm Displacement



■ Directivity



⚠ Note:

1. Export Control

〈For customers outside Japan〉

Murata products should not be used or sold for use in the development, production, stockpiling or utilization of any conventional weapons or mass-destructive weapons (nuclear weapons, chemical or biological weapons, or missiles), or any other weapons.

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For products which are controlled items subject to the "Foreign Exchange and Foreign Trade Law" of Japan, the export license specified by the law is required for export.

2. Please contact our sales representatives or product engineers before using the products in this catalog for the applications listed below, which require especially high reliability for the prevention of defects which might directly damage to a third party's life, body or property, or when one of our products is intended for use in applications other than those specified in this catalog.

- | | |
|-----------------------------|---|
| ① Aircraft equipment | ② Aerospace equipment |
| ③ Undersea equipment | ④ Power plant equipment |
| ⑤ Medical equipment | ⑥ Transportation equipment (vehicles, trains, ships, etc.) |
| ⑦ Traffic signal equipment | ⑧ Disaster prevention / crime prevention equipment |
| ⑨ Data-processing equipment | ⑩ Application of similar complexity and/or reliability requirements to the applications listed in the above |

3. Product specifications in this catalog are as of March 2004. They are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering. If there are any questions, please contact our sales representatives or product engineers.

4. Please read rating and ⚠CAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.

5. This catalog has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

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7. No ozone depleting substances (ODS) under the Montreal Protocol are used in our manufacturing process.