

VYDAS

INTERNATIONAL MARKETING

Specialist Sensors & Instruments for Industry

MODELS E-152/40 ■ E-152/75 **BROAD BEAM ULTRASONIC TRANSDUCER**

DESCRIPTION

E-152/40

The Massa Model E-152/40 is a miniature air ultrasonic transducer having many applications in short range sensing and remote control where non-contact is desired. The transducer operates at 40 kHz, its fundamental resonant frequency, thereby producing a relatively broad directional response, free of minor lobes. The housing and diaphragm are one piece and made from stainless steel to provide high resistance to corrosive atmospheres. Each transducer is provided with 2 feet of twisted pair cable potted in at the back of the housing. Other lengths of cable or different terminations are available on special order.

E-152/75

The Massa Model E-152/75 is physically the same as the E-152/40 but operates at 75 kHz. Operation at 75 kHz permits better resolution and performance in short range applications.

Massa Products Corporation is a leading designer and manufacturer of a wide variety of electroacoustic transducers and systems for use in air and under water, with over 50 years of specialised experience in this field.



FEATURES

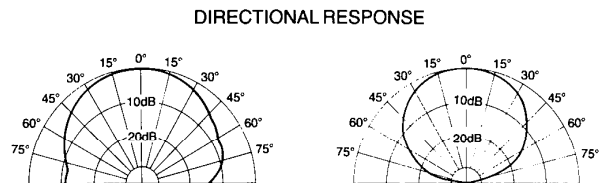
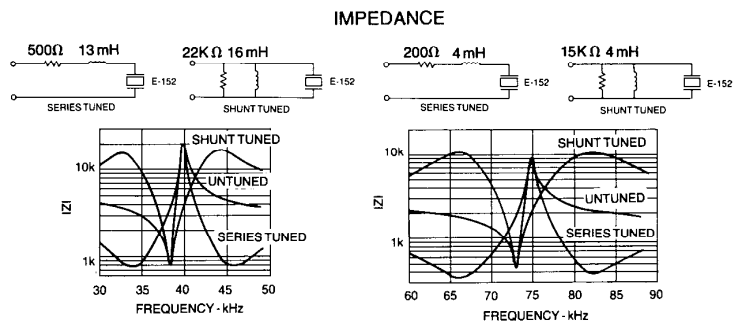
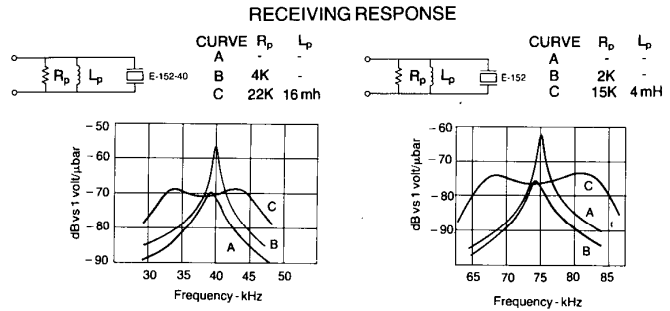
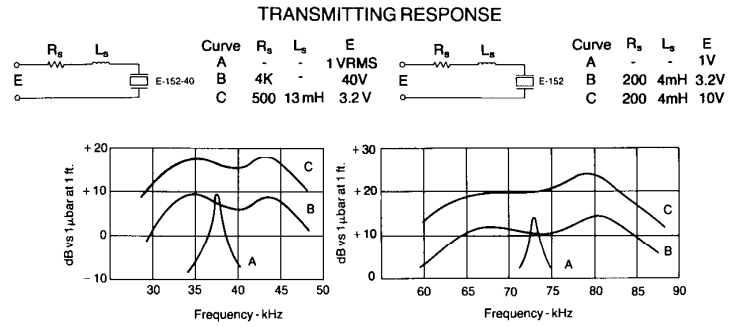
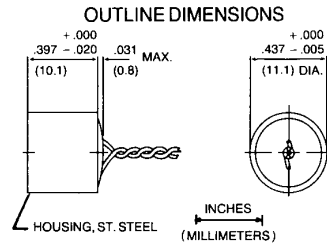
- ◆ **Small Size**
- ◆ **Corrosive resistant diaphragm/housing**
- ◆ **Smooth Directional Response**
- ◆ **Operates at fundamental resonant frequency**

APPLICATIONS

- ◆ **Distance Measurement Systems**
- ◆ **Proximity Detection Systems**
- ◆ **Security Sensing Systems**
- ◆ **Robotics Systems**
- ◆ **Ultrasonic Counting**

SPECIFICATIONS

	E152/40	E152/75
Frequency at Receiving Sensitivity	40 kHz ±2 kHz	75 kHz ± 2 kHz
Bandwidth Tuned	14 kHz	20 kHz
Bandwidth Untuned	1 kHz	1 kHz
Transmitting Sensitivity (dB vs 1 μ bar per volt at 1 foot untuned)	+ 10	+ 10
Receiving Sensitivity (dB vs 1 volt/μ bar untuned)	-57	-62
Rated Power	10mW	10mW
Nominal Impedance at minimum resonance	1000Ω	1000Ω
Total Beam Angle (-3 dB) Conical	75°	60°
Operating Temperature	0-70°C	0-70°C
Humidity	0-90% Noncondensing	
Weight	6 grams	6 grams
All specifications typical at 22°C and barometric pressure of 751 mm of mercury and subject to change without notice.		



Call **01428 751822**

For Further Information

