

40kHz Omni Directional Ultrasound Transmitters

40kHz Wide Angle Ultrasound Receivers

Piezoelectric film (PVDF) ultrasound transmitter and receivers offer unique advantages for air ranging applications.

Depending on the applications, resonance frequency and vertical beam directivity of the transmitter and receiver can easily be customized by changing the diameter and length of the PVDF cylinder. The receiver has a very wide horizontal beam angle and it can be reduced by changing the housing design if necessary.

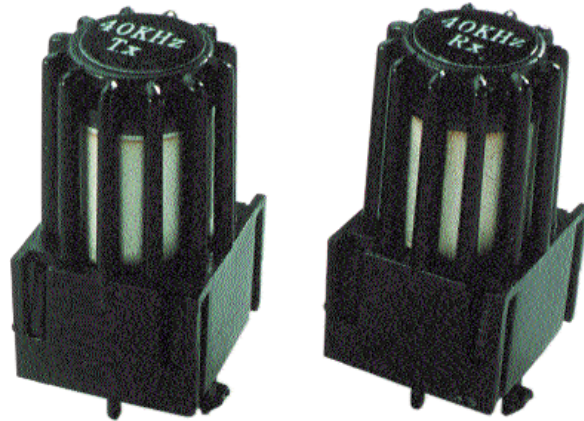
PVDF transmitters and receivers also have very low resonance Q value of 5 and PVDF receivers have Q value of 4. This means that the rising time and the signal decay time are much faster than the conventional ceramic transmitters. This characteristic is suitable for high speed data acquisition or high speed digitizer applications.

Cylindrical 40kHz PVDF transmitters exhibit omni-directional horizontal beam directivity and broad band characteristics.

Cylindrical 40kHz PVDF receivers exhibit very wide horizontal beam directivity and broad band characteristics. These characteristics lend unique solutions in many applications such as

two-dimensional positioning, digitizer, object detection, and distance measurement.

A test board, consisting of snap-in mount holes and test pins, is available for easy evaluation of the 40kHz transmitters. A preamplifier is available for easy evaluation of the 40kHz receivers.



FEATURES

- Omni-directional horizontal beam directivity
- Broad band
- Low resonance Q
- Excellent impact resistance
- Low Cost
- Light Weight

Description	Part Number	Low Volume price (US \$)
40 kHz Transmitter	1005853-1	15.00
Test Board (for Transmitter)	1005854-1	15.00
Drive Electronics (for Transmitter)	1005855-1	200.00
40 kHz Receiver	1005856-1	15.00
Preamplifier Board (for Receiver)	1005857-1	30.00

Effective: April 1st, 2008

Please contact factory for custom part quotations and volume pricing.

Distribuidor

Brasil e América do Sul

CONTATO

Endereço

Rua Sete de Setembro, 2671 - Centro
13560-181 - São Carlos - SP - Brasil

Telefone

+55 (16) 3371-0112

Fax

+55 (16) 3372-7800

Internet

www.metrolog.net
metrolog@metrolog.net

