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Piezo Evaluation Kits

SensComp's Piezo-Electric Transducer Evaluation Kits provide the transducers for prototype development

Features

Specially Intended for Operation in Air at Ultrasonic Frequencies

Beam Angles from 10° to 125°

K Series Closed-Face:

Environmentally Rugged

Durable, Sealed Construction Protects Against Water, Heat, Humidity and Other Elements

L Series Open-Face:

Increased Sensitivity

Reduced Ringing Characteristics

Pulse Transceivers:

Closed Face (KPT) and Open Face (LPT)

One Transducer Transmits and Receives

High Frequency Transceivers

Closed-Face Construction

Coated with a Special Acoustic Material for Optimum Efficiency and Impedance Matching in Air



Description

The **Piezo-Electric Evaluation Kit** is a great building block for exploring the characteristics of our piezo-electric transducers for inclusion into your prototype designs. The kit contains a representative sample of our economical ultrasonic transducer products.

Included in the package are our K Series Closed-Face transducers, our L-Series Open Face Transducers, and also our Pulse Transceivers (Both Closed-Face and Open Faced).

The 'K' Series Piezo transducers are designed to be environmentally rugged, with durable, sealed construction that resists and protects against water, heat, humidity and other elements.

The L Series Transducers offer the design engineer a unique blend of size, acoustical performance when developing their ultrasonic sensor product. All use screen mesh open face construction housed in a metal case, offering increased sensitivity for non-hostile environments

Part No.

PID# 606786 – Standard Piezo Evaluation Kit, 40 kHz

PID# 606787 – Premium Piezo Evaluation Kit, 40 kHz and High Frequency

Kit Contents

The Standard Kit Contains One Each of:

40KT08, 40KT18, 40KT25 Transmitters, K Series

40KR08, 40KR18, 40KR25 Receivers, K Series

40KPT18A, 40KPT25 Transceivers, K Series

40LT10, 40LT12, 40LT16 Transmitters, L Series

40LR10, 40LR12, 40LR16 Receivers, L Series

40LPT16 Transceivers, L Series

The Premium Kit, in Addition to the Above, Contains:

1 - 120KHF25 Transceiver, 125 kHz, K Series

1 - 200KHF18 Transceiver, 210 kHz, K Series

For more information, visit our website: www.senscomp.com

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Piezo-Electric Comparison Chart

Description	Diameter (mm)	Center Freq (KHz)	Beam Angle (-6dB)	SPL (Db) (Transmit)	Sensitivity (Db) (Receive)	Bandwidth (kHz) (-6dB)	Capacitance at 1kHz (pf)	Nominal Impedance	Ringing (ms)	Max Continuous Drive Voltage
40KT08	8	40 ± 3.0	125°	100		1.5	1700			15 V rms
40KR08	8	40 ± 3.0	125°		-80	2.0	1700			
40KT18	18	40 ± 1.0	30°	115		1.5	2400			15 V rms
40KR18	18	40 ± 1.0	30°		-70	1.5	2400			
40KT25	25	40 ± 1.0	30°	115		1.0	2400			20 V rms
40KR25	25	40 ± 1.0	30°		-70	1.0	2400			
40KPT18A	18	40 ± 1.0	85°	108	-75	1.5	1900	500	1.2	20Vrms; 100Vpp*
40KPT25	25	40 ± 1.0	30°	113	-72	4.0	2400	2400	1.2	20Vrms; 100Vpp*
120KHF25	25	125 ± 10	10°	20	-70	10.0	1400	300		50 V pp*
200KHF18	18	210 ± 10	10°	20	-75	10.0	580	500		50 V pp*
40LT10	9.7	40 ± 1.0	72°	112		2.5	1900			10 V rms
40LR10	9.7	40 ± 1.0	72°		-70	3.0	1900			
40LT12	12.7	40 ± 1.0	85°	115		2.0	2400			20 V rms
40LR12	12.7	40 ± 1.0	85°		-67	2.0	2400			
40LT16	16	40 ± 1.0	55°	120		2.0	2400			20 V rms
40LR16	16	40 ± 1.0	55°		-65	2.5	2400			
40LPT16	16	40 ± 1.0	55°	117	-65	2.0	2400	1000	1.2	20 V rms

values typically at 25° C

*10% duty cycle; 20 pulses max.