

K Series 40KTRX08

SensComp's 'K' Series Closed Face Piezoelectric Ultrasonic Sensor – 40KTRX08

Features

Closed Face Construction
Environmentally Rugged SUS316 Stainless Steel Housing
Hermetic Sealed Construction Protects Against Water, Heat, Humidity and Other Elements
Specifically Intended for Operation in Air at Ultrasonic Frequencies

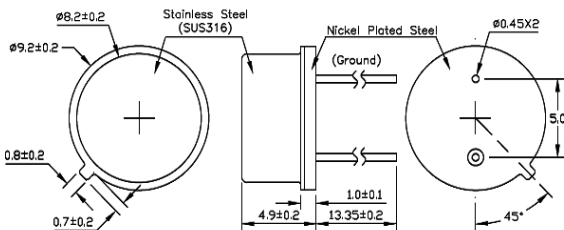
Part No.

*PID# 618901LF – K Series 40KTRX08
*RoHS Compliant

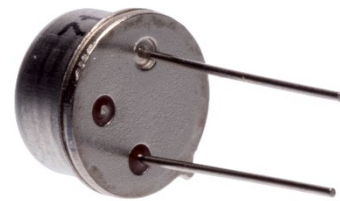
Specifications

40KTRX08 Transceiver
Center Frequency 40.0 ± 2.0 kHz
Bandwidth (-6 dB) 3.0 kHz
Transmitting Sound Pressure Level 102 dB min
 at 40.0 kHz; 0dB re 0.0002 μbar
 Per 10 Vrms at 30 cm
Receiving Sensitivity -78 dB min
 at 40.0 kHz; 0dB = 1 volt/ μbar
Capacitance at 1 kHz 1900pf ±20%
Maximum Driving Voltage (cont.) 15 Vrms
Total Beam Angle (-6 dB) 120°±10°
Operating Temperature -30° to 70° C
Storage Temperature -40° to 80° C
 All Specifications taken typical at 25°±3°C
 45 to 60% RH, unless otherwise noted.

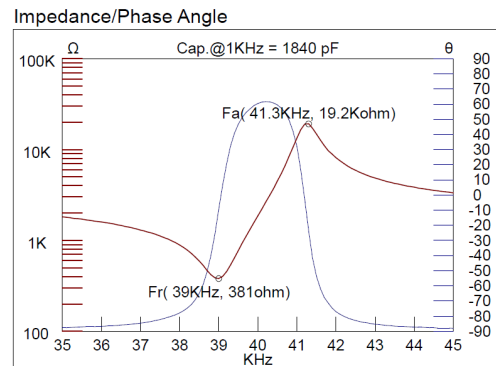
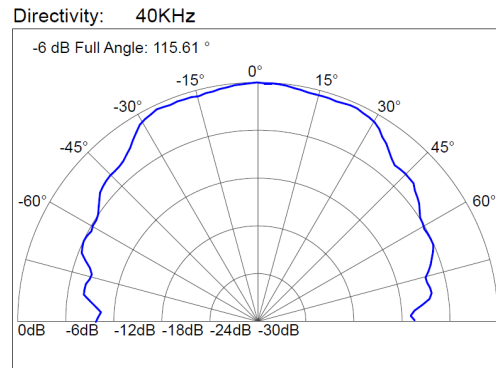
Dimensions: dimensions are in mm



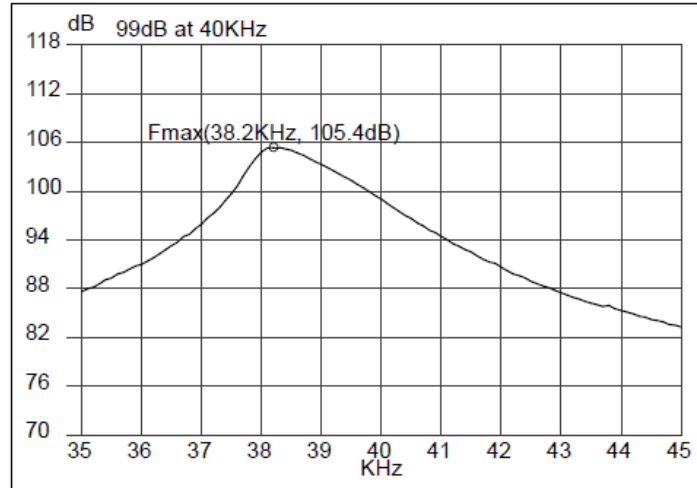
Specifications



Beam Angle: Tested at 40.0 kHz



Transmitting Sound Pressure Level (0dB=0.0002μbar)



Receiving Sensitivity (0dB re 1v/μbar)

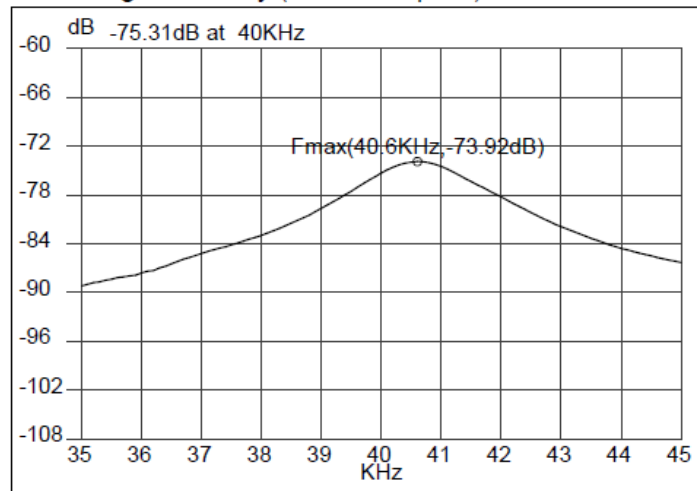
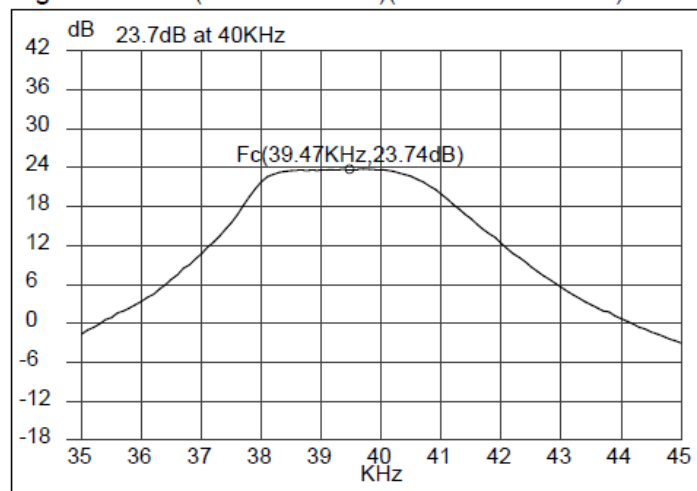


Figure of Merit(Insertion Loss)(F.O.M=SPL+SEN)



SENSCOMP PRODUCT SPECIFICATION SHEET DISCLAIMER NOTICE

Information provided in this document is proprietary to SensComp, Inc. ("SensComp") and SensComp reserves the right to make corrections, enhancements, improvements and other changes to its products, specification sheets and data, and to discontinue any product at any time, without further notice. Buyer should obtain the latest relevant information before placing an order and should verify that such information is current and complete. All products are sold subject to SensComp's terms and conditions of sale in effect at the time of order acknowledgment.

SensComp disclaims any and all liability for any errors, inaccuracies or incompleteness contained in any specification sheet or in any other disclosure relating to any product. Information contained herein is strictly for reference and subject to change without notice. SensComp is not liable for any damages that the reader or any third person might suffer as a result of the reader ignoring this warning.

SensComp makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose. SensComp disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential, or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for a particular purpose, non-infringement, and merchantability.

Any performance specs are believed to be reliable but are not verified, and buyer must conduct and complete all performances and other testing of the products, alone and together, with, or installed in any end-product. Buyer shall not rely on any data and performance specs or parameters provided by SensComp.

SensComp assumes no liability for applications assistance or the design of Buyer's products. Buyer is responsible to independently determine suitability of any products and to test, verify and validate its products, designs and applications using SensComp's products or components. To minimize the risks associated with Buyer's products and applications, Buyer should provide adequate design and operation safeguards.

The information provided by SensComp here under is provided "as is, where is" and with all faults, and the entire risk associated with such information is entirely with buyer. SensComp does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other IP rights, whether with regard to such information itself or anything described by such information.

SensComp products have been subject to limited testing and are not authorized for use in aircraft, aviation, nuclear, medical, or safety-critical applications including, but not limited to, life support, and where a failure of the SensComp product would reasonably be expected to cause severe personal injury or death.