

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.

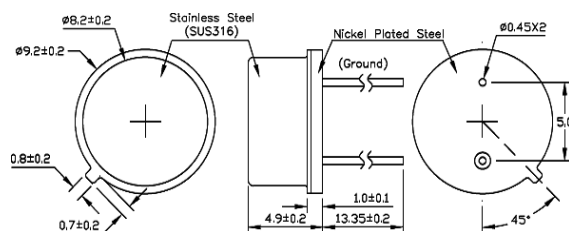
*PID# 618901LF – K Series 40KTRX08

*RoHS Compliant

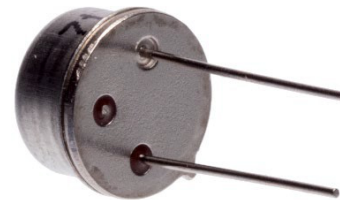
Specifications

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 μ bar
Per 10 Vrms at 30 cm
Receiving Sensitivity -78 dB min
at 40.0 kHz; 0dB = 1 volt/ μ bar
Capacitance at 1 kHz..... 1900pf $\pm 20\%$
Maximum Driving Voltage (cont.) 15 Vrms
Total Beam Angle (-6 dB)..... $120^\circ \pm 10^\circ$
Operating Temperature -30° to 70° C
Storage Temperature -40° to 80° C
All Specifications taken typical at $25^\circ \pm 3^\circ$ C
45 to 60% RH, unless otherwise noted.

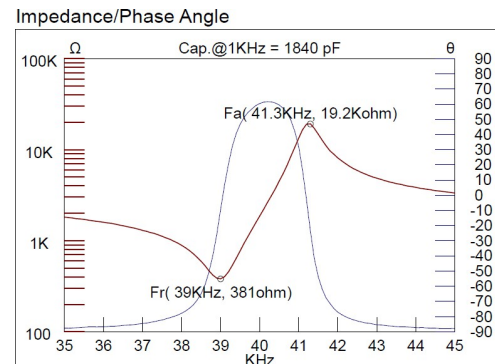
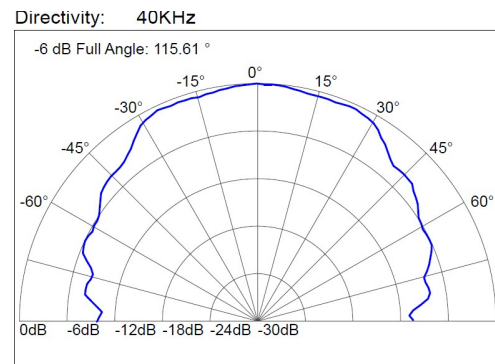
Dimensions: dimensions are in mm



Specifications



Beam Angle: Tested at 40.0 kHz



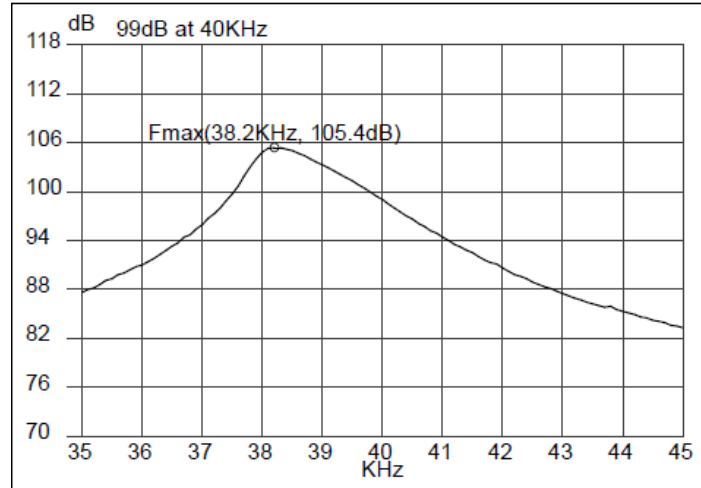
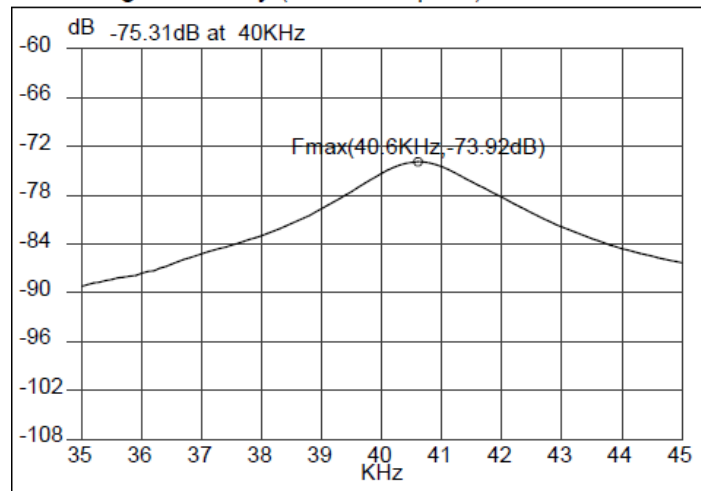
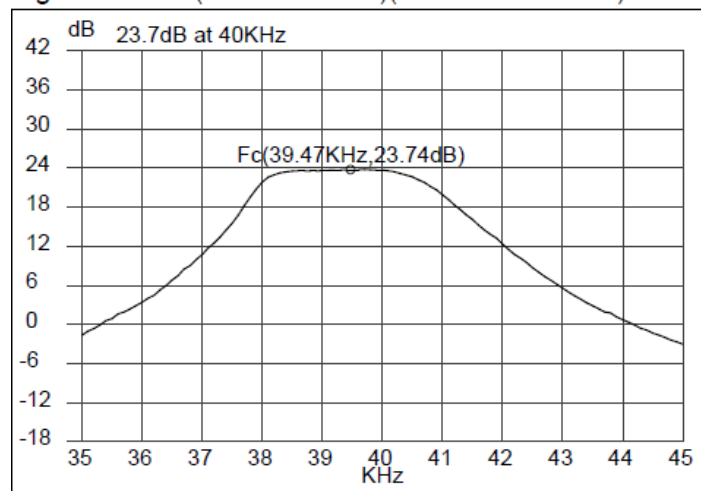
Transmitting Sound Pressure Level (0dB=0.0002 μ bar)Receiving Sensitivity (0dB re 1v/ μ bar)

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



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