

K Series 125KHF25

SensComp's 'K' Series Closed Face Piezoelectric Ultrasonic Sensors 125KHF25 High Frequency Transceiver

Features

Closed Face Construction
Environmentally Rugged Aluminum Black Anodized Housing
Durable, Sealed Construction Protects Against Water, Heat, Humidity and Other Elements
Silicone Rubber Face Material for Optimum Efficiency and Impedance Matching to Air
Specifically Intended for Operation in Air at Ultrasonic Frequencies

Part No.

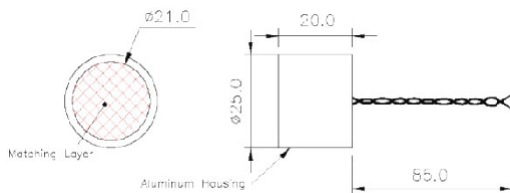
*PID# 618909LF – 125KHF25

*RoHS Compliant

Specifications

125KHF25..... Transceiver
Center Frequency..... 125.0 $\pm$ 10.0 kHz
Bandwidth (Echo Sensitivity)..... 10 kHz
Echo Sensitivity -58 dB minimum
0 dB = 20 Vp-p @ 25 cm
Dead Zone..... 20 cm
Nominal Impedance 1200 ohm
Capacitance at 1 kHz $\pm$ 20%..... 1250 pF
Maximum Driving Voltage (Pulse)..... 100 Vp-p
(10% duty cycle)
Total Beam Angle (-3 dB)..... 10° typical
(-6 dB) 14.5° typical
Matching Window Silicone Rubber
Operating Temperature 0° to 70° C
Storage Temperature..... -20° to 80° C
all Specifications taken typical at 25° C

Dimensions: dimensions are in mm

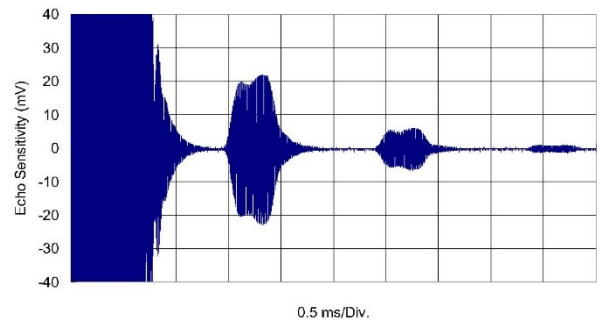


Specifications

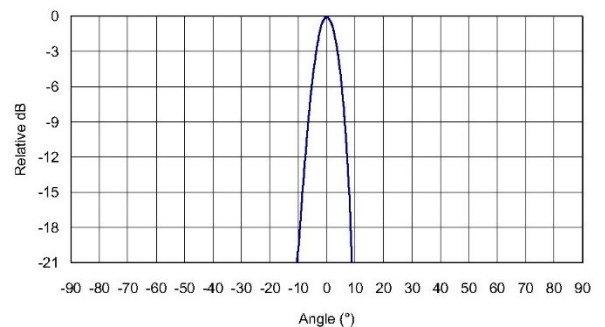


Echo Sensitivity/Ringing

Tested under 20Vp-p, 50 bursts, 25cm

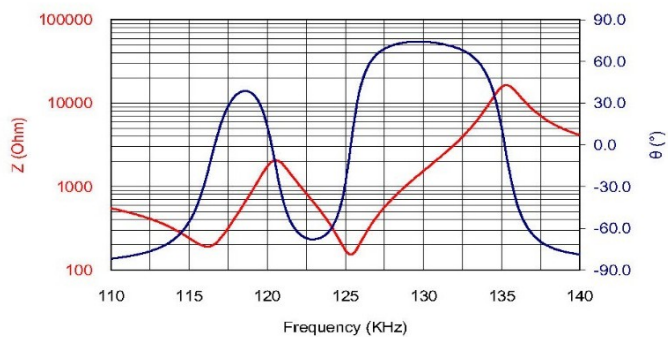


Beam Angle: Tested at 125.0Khz frequency

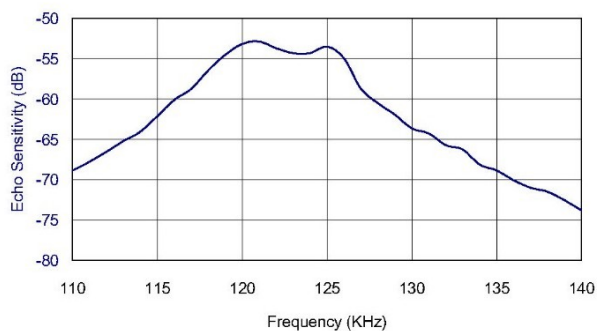


Impedance/Phase Angle vs. Frequency

Tested under 1 Vrms Oscillation Level

**Echo Sensitivity vs. Frequency**

Tested at distance of 25cm, 20Vp-p, 50 bursts



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