

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

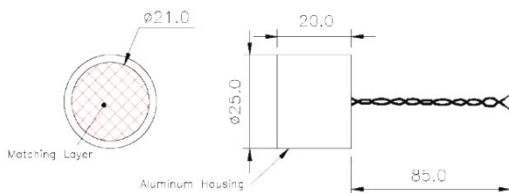
Part No.

- *PID# 618909LF – 125KHF25
- *RoHS Compliant

Specifications

- 125KHF25**..... Transceiver
- Center Frequency**..... 125.0 ± 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 ± 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

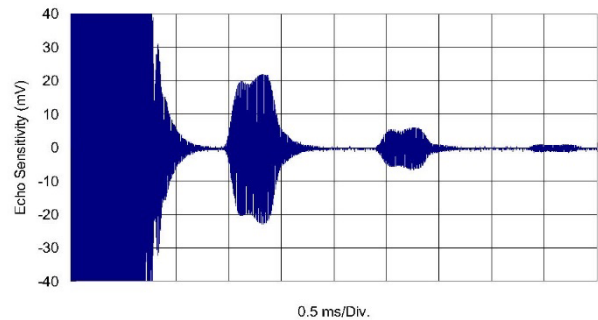


Specifications

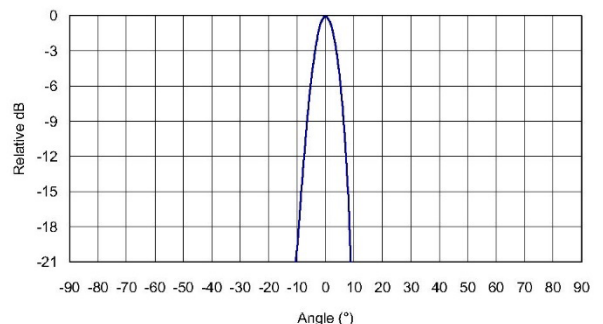


Echo Sensitivity/Ringing

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

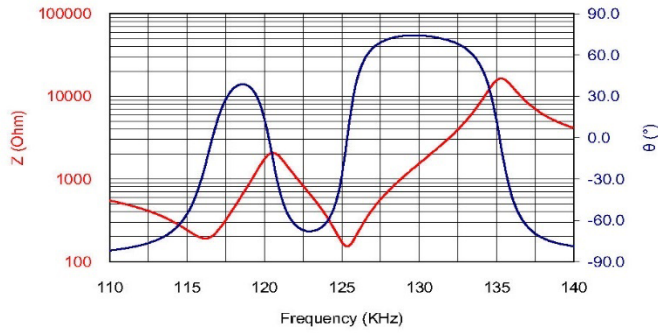


Beam Angle: Tested at 125.0Khz frequency



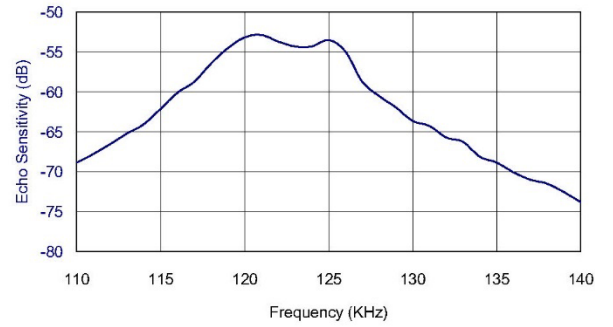
Impedance/Phase Angle vs. Frequency

Tested under 1Vrms Oscillation Level



Echo Sensitivity vs. Frequency

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



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