

# MODEL T413

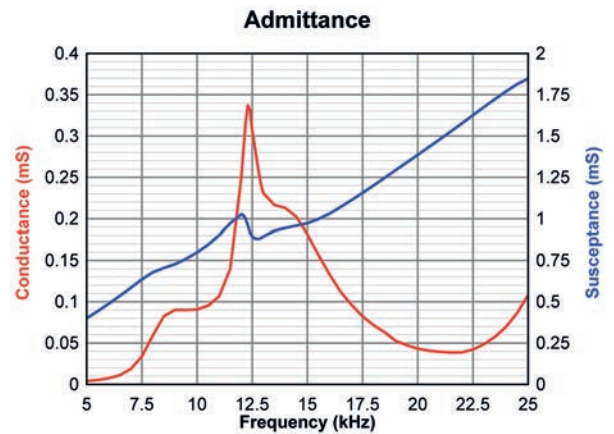
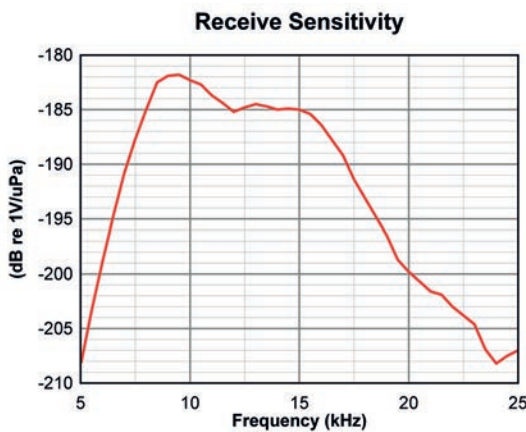


- **HEMISPHERICAL BEAM PATTERN**
- **BROADBAND OPERATION**
- **HIGH PERFORMANCE**
- **LONG RANGE TRANSMISSION**
- **LOW COST**

Designed for use in transponder beacons, data communication, acoustic release mechanisms and long-range base line systems, the T413 is a versatile transducer combining broadband transmission and reception over a hemispherical beam pattern. The over-moulded design onto an anodised aluminium

base is lightweight and mechanically robust.

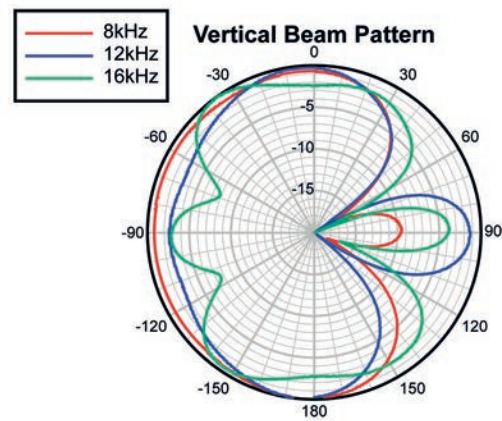
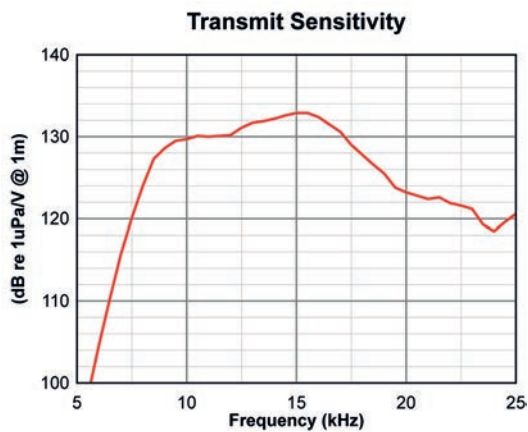
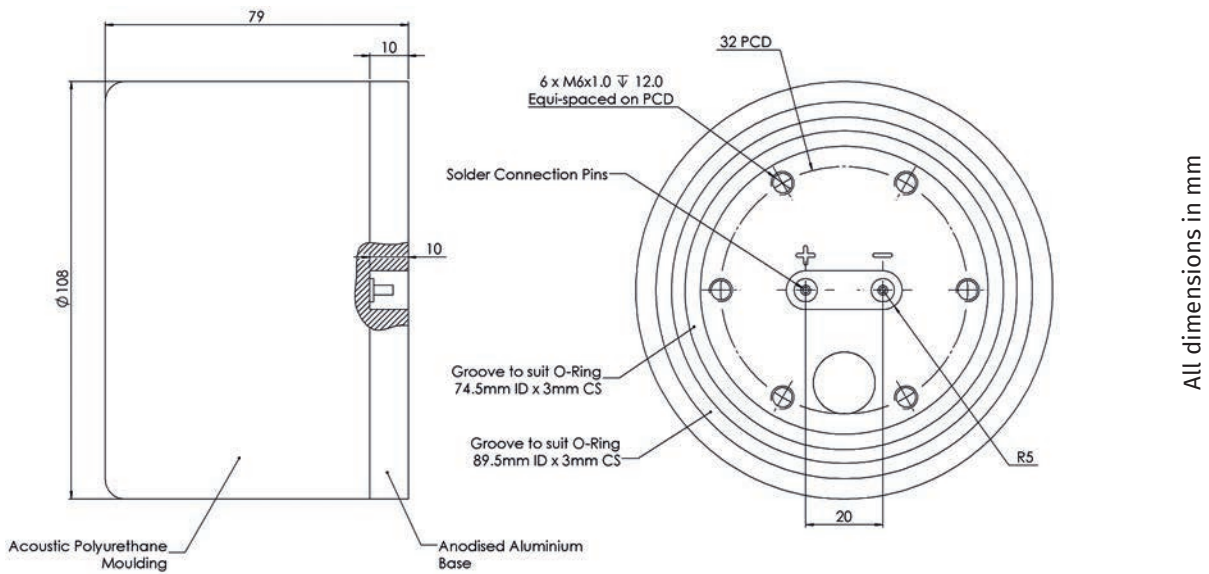
The T413 is available with or without acoustic calibration, traceable to National Standards.



## TECHNICAL SPECIFICATION

Resonant Frequency (Nominal)	9 / 15 kHz
Useful Operating Band	7 kHz to 17 kHz
Beam Pattern (Horizontal)	Omni ± 2 dB
Beam Pattern (Vertical)	Hemispherical / Toroidal (See Graph)
Receive Sensitivity	-183 dB re 1V/μPa
Transmit Sensitivity	130 dB re 1μPa/V @ 1m
Capacitance at 1 kHz (with 1m cable)	14,000 pF
Transmit Voltage (Max)	1200 Vrms
Transmit Voltage / Duty Cycle (Abs. Max)	1200 Vrms at 10% 350 Vrms at 100%

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## MECHANICAL SPECIFICATION

Operating Depth	1500m
Weight Air/Water (with 1m cable)	1.3 kg / 0.6 kg
Operating Temperature	-5 to +40 °C
Storage Temperature	-40 to +80 °C
Connection	2 x Solder Connection Pins