

TYPE F56 TRANSDUCER



Fig. F56-1 - Type F56 transducer.

FUNCTION: A high-power, omnidirectional projector for high audio frequencies. Also, a hydrophone for the whole audio range.

DESIGN: A 15-cm-diam PZT spherical shell encapsulated in polyurethane. A stainless steel tube molded in place holds a three-pin underwater connector.

FREQUENCY RANGE: 1-15 kHz as a projector
1 Hz to 15 kHz as a hydrophone

TVR: See Fig. F56-2

FFVS: Approximately -185 dB re 1 V/ μ Pa (see Fig. F56-3)

MAXIMUM DEPTH: 690 m

TEMPERATURE RANGE: 0 to 35°C

MAXIMUM DRIVING SIGNAL: 1000 V

ELECTRICAL IMPEDANCE: See Fig. F56-4

DIRECTIVITY: Omnidirectional in all planes <10 kHz

WEIGHT: 15 kg (33 lbs)

SHIPPING WEIGHT: 30 kg (66 lbs)

NORMAL CABLE LENGTH: 30 m

CABLE CODE: white high signal
black & shield low signal & ground

INSTRUCTIONS FOR THE USER:

See Appendix D for preparation for use
Attach hanger with 10-32 holes in cable gland tube
Acoustic center is center of the sphere (see Fig. F56-5)

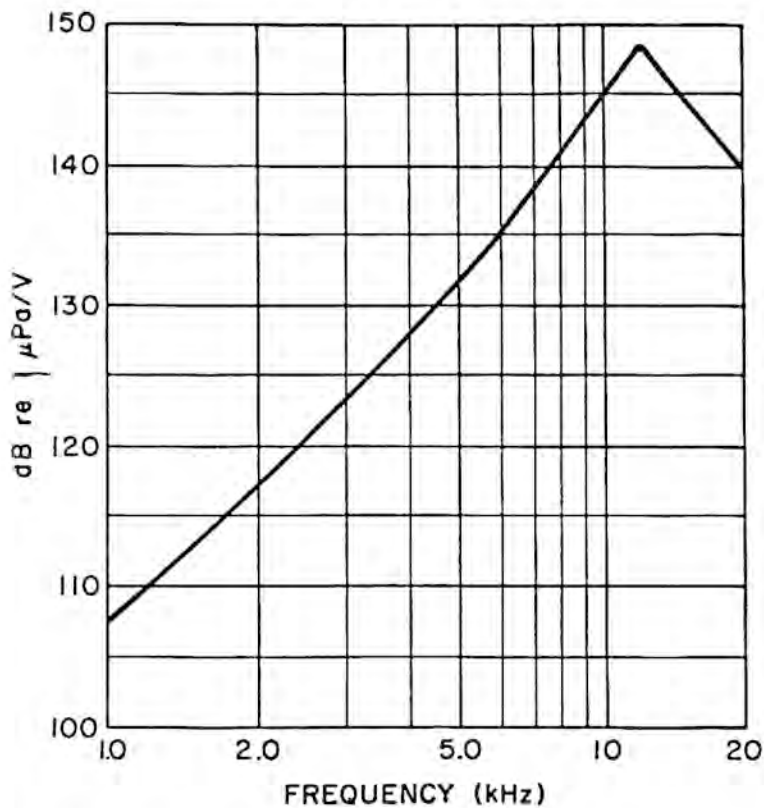


Fig. F56-2 - Typical TVR for Type F56 transducer (unbalanced, black lead, and shield grounded, 30-m cable).

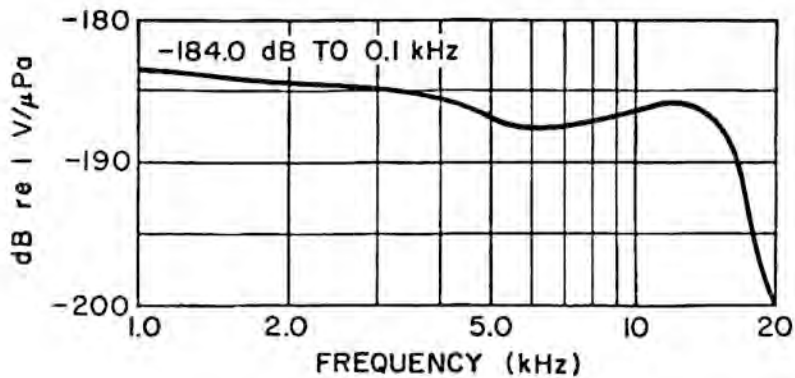


Fig. F56-3 - Typical F56 for Type F56 transducer (open-circuit voltage at end of 30-m cable, unbalanced, black lead and shield grounded).

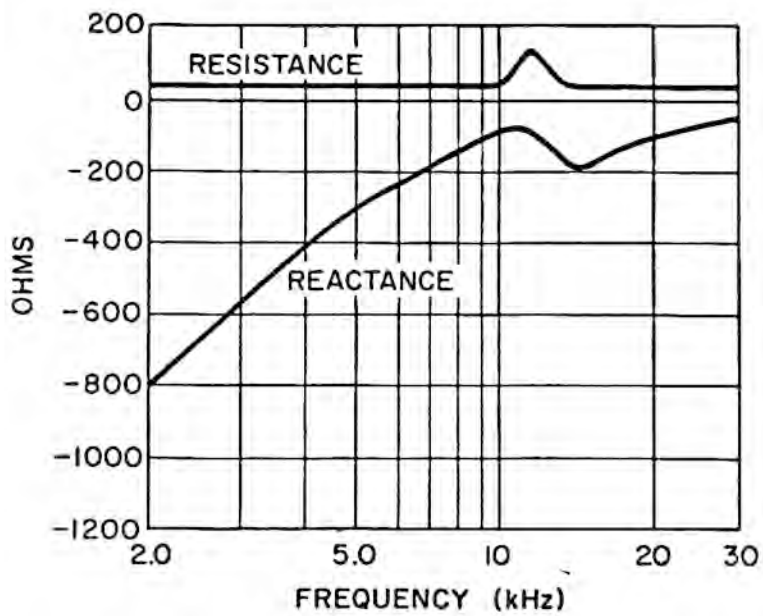


Fig. F56-4 - Typical equivalent series impedance for Type F56 transducer (unbalanced, black lead and shield grounded, 30-m cable).

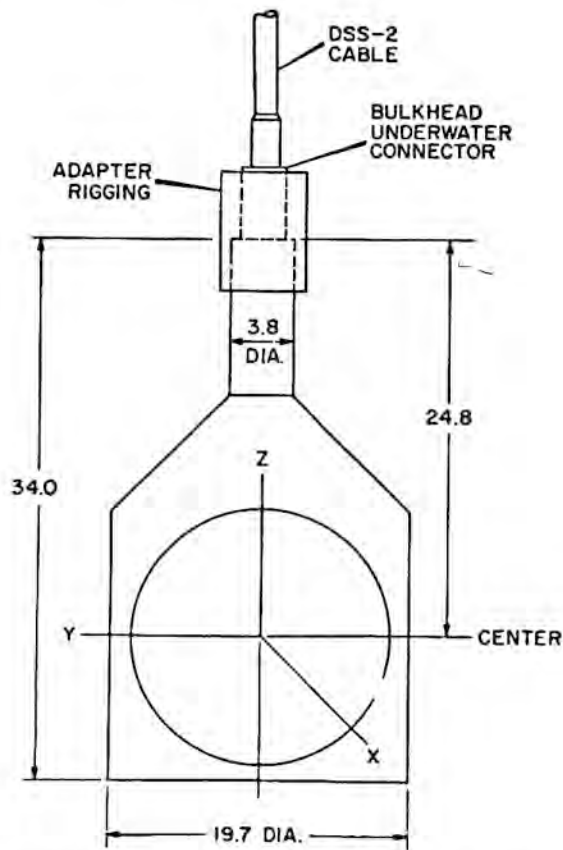


Fig. F56-5 - Dimensions (in cm) and orientation for Type F56 transducer.