Simrad 50-7 Single beam echo sounder transducer

Introduction

The **Simrad 50-7** is a medium size, 50 kHz single beam echo sounder transducer. It incorporates 48 Tonpilz elements. The circular transducer body is easily mounted.

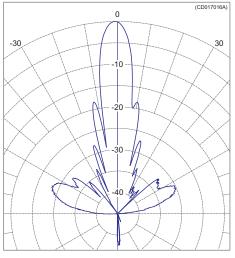
Order number

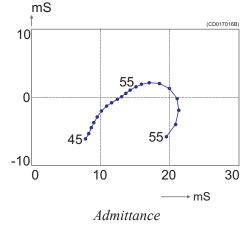
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Technical specifications

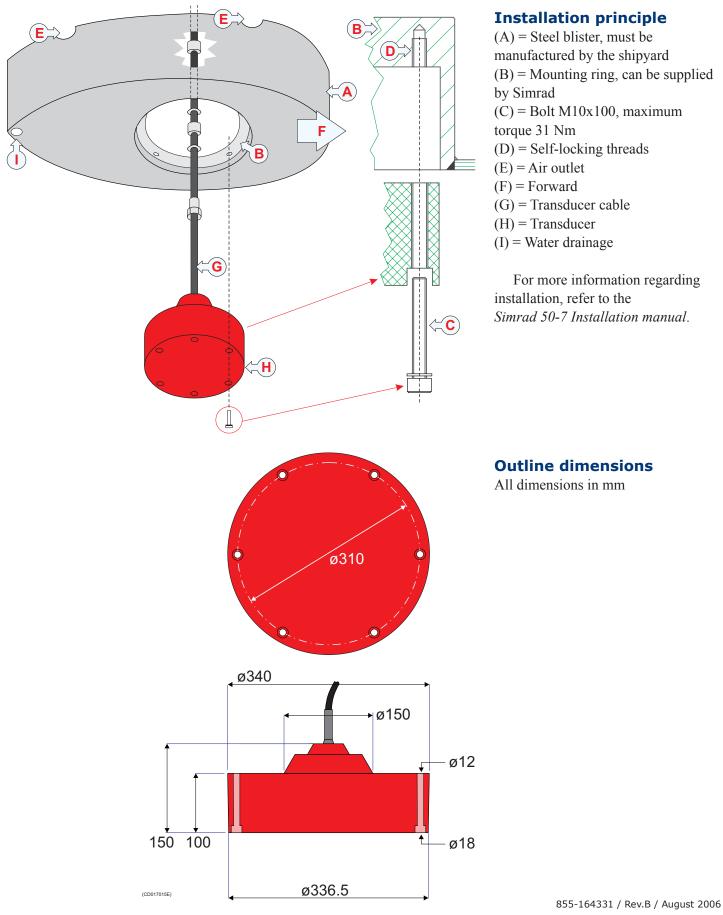
- Resonant frequency: 50 kHz
- -3 dB bandwidth: 10 kHz
- Circular beamwidth: 7 deg
- Directivity D: 650
- DI = 10 log D: 28 dB
- Equivalent two-way beam angle Ψ: 0.009
- 10 log Ψ: -20.5 dB
- Side lobes: Less than -16 dB
- Back radiation: Less than -30 dB
- Nominal impedance: 75 ohm
- Max. variation in |Z|: 60 to 95 ohm
- Max. variation in phase angle: ±30 deg
- Transmitting response: 177.5 dB re 1µPa per V
- Receiving sensitivity, open circuit: -173 dB re 1V per μPa
- Electro-acoustic efficiency: 0.50
- Max. pulse power input: 2000 W
- Max. continuous input: 30 W
- Max. transducer depth: 20 m
- Cable length: 20 m
- Cable diameter: 11 mm
- Weight: 18 kg
- Storage temperature: -20° to 70°C





Beam pattern





Installation principle

(A) = Steel blister, must be manufactured by the shipyard (B) = Mounting ring, can be supplied(C) = Bolt M10x100, maximum (D) = Self-locking threads (G) = Transducer cableFor more information regarding

installation, refer to the Simrad 50-7 Installation manual.

Outline dimensions

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