Innovative Technology
Airmar’s commitment to innovative technology has produced the SS510. This broadband 200 kHz transducer has a Q of 2 and very good sensitivity. It enables users to perform accurate surveys in shallow-water with high resolution. This transducer can also be “chirped” with a long pulse over a wide-frequency band. Users with adjustable-frequency echosounders will be able to regulate the operating frequency and tailor the beamwidth to specific survey conditions.

Options
- Impedance to customer’s specifications using matching transformer

Portable-Mount
500 W
Broadband

Applications
- River, harbor, and estuary survey

Features
- Broadband with low Q of 2
- Minimal sidelobes for concentrated energy on target providing excellent definition
- Short, threaded stem simplifies attaching to portable-mounting apparatus
- Internal transformer provides impedance match to echosounder and allows use of longer cable
- 500 W RMS, power rating is at 2% duty cycle
- Robust, stainless-steel housing
As Airmar constantly improves its products, all specifications are subject to change without notice. All Airmar products are designed to provide high levels of accuracy and reliability, however they should only be used as aids to navigation and not as a replacement for traditional navigation aids and techniques. Other company or product names mentioned in this document may be trademarks or registered trademarks of their respective companies, which are not affiliated with Airmar.

**SS510**

**DIMENSIONS**

- Ø 22 mm (0.86”)
- Ø 43 mm (1.69”)
- 1/2”-14 NPS threads
- 25 mm (1.00”)
- 6 mm (17/64”) diameter

**SPECIFICATIONS**

Weight: 1.3 kg (3 lb)

Acoustic Window: Urethane

Stem Threads: 1/2”-14 NPS

Cable Type: C-33

Shielded twisted pair (2-20 AWG) with braided shield, black neoprene jacket,

**Technical Data—200 kHz-BClq**

<table>
<thead>
<tr>
<th>Frequency (kHz)</th>
<th>TVR in dB re 1µPa/Volt at 1 m</th>
<th>RVR in dB re 1 Volt/µPa</th>
<th>FOM</th>
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</thead>
<tbody>
<tr>
<td>100</td>
<td>-185</td>
<td>-20</td>
<td>0</td>
</tr>
<tr>
<td>150</td>
<td>-190</td>
<td>-20</td>
<td>0</td>
</tr>
<tr>
<td>200</td>
<td>-195</td>
<td>-20</td>
<td>0</td>
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<tr>
<td>250</td>
<td>-200</td>
<td>-20</td>
<td>0</td>
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</table>

**Frequencies**

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Beamwidth (°-3 dB)</th>
<th>RMS Power (W)</th>
<th>FOM (dB)</th>
<th>Q</th>
<th>Series Impedance (Ω)</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 kHz-BClq</td>
<td>8°</td>
<td>500 W</td>
<td>-16</td>
<td>2</td>
<td>60-j0(Ω)</td>
</tr>
</tbody>
</table>

**Echogram**

Vertical: 1E+03 V/DIV
Horizontal: 500E-6 SEC/DIV

**Directivity Pattern—200 kHz-BClq**