M21-203-900

The M21-203-900 is a member of the M21 family of flexural disk projectors, commonly known as benders. M21s are inexpensive projectors that can produce moderate power over a broad band or high power near resonance.

The M21 family of projectors is highly versatile, enabling GeoSpectrum to provide customers with a source that caters to their specification. For a given diameter, the resonance can be varied a factor of two at the time of manufacture, with higher resonances yielding greater bandwidth and depth capability.

M21s can be used individually, in a stack to produce greater power and bandwidth at even lower frequencies, or in conventional arrays to produce a directive, high-power source.

### Characteristics

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Value</th>
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<tbody>
<tr>
<td>Resonance frequency</td>
<td>900 Hz</td>
</tr>
<tr>
<td>TVR at resonance</td>
<td>138 ±1 dB re 1 µPa/V @ 1 m</td>
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<tr>
<td>-3 dB bandwidth</td>
<td>110 Hz</td>
</tr>
<tr>
<td>Electroacoustic efficiency</td>
<td>80% at resonance</td>
</tr>
<tr>
<td>Operating and survival depth</td>
<td>190 m</td>
</tr>
<tr>
<td>Max Drive voltage</td>
<td>1200 Vrms</td>
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<tr>
<td></td>
<td>600 Vrms (with standard connector)</td>
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<tr>
<td>Maximum power, pulsed at resonance</td>
<td>0.9 kW</td>
</tr>
<tr>
<td>Cavitation depth for 197 dB re 1 µPa</td>
<td>20 m</td>
</tr>
<tr>
<td>Thickness</td>
<td>3.9 cm</td>
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<tr>
<td>Diameter</td>
<td>21.3 cm</td>
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<tr>
<td>Mass</td>
<td>3.8 kg</td>
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