

## 130 to 210 kHz-B (Broadband)

Transformed to 60 ohms minimum (B3)

**Power Rating:**

- 2 kW @ 1% duty cycle
- CW<sup>(4)</sup>: 25W in M563

88 mm (3.46 in) PZT

Active Area: 61 cm<sup>2</sup> (9.4 in<sup>2</sup>)

Radiating Surface:

Cast Resin/Urethane

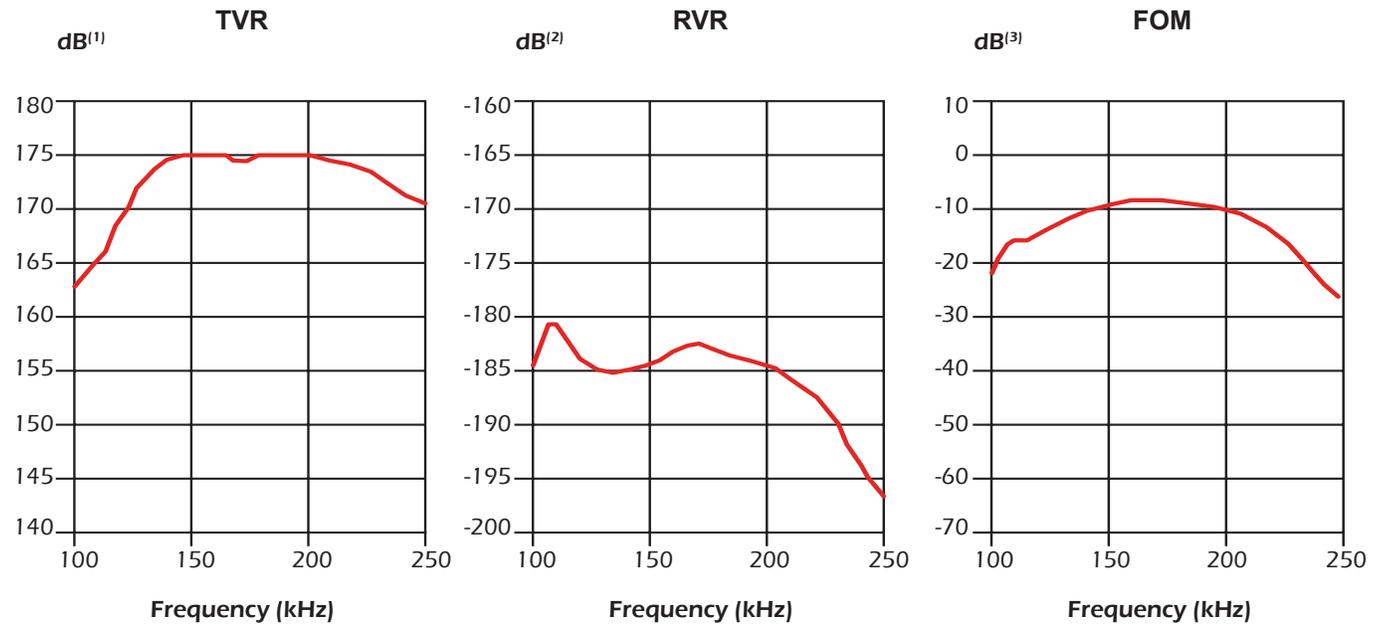
Q ≈ 2

Cable Type: C44-02

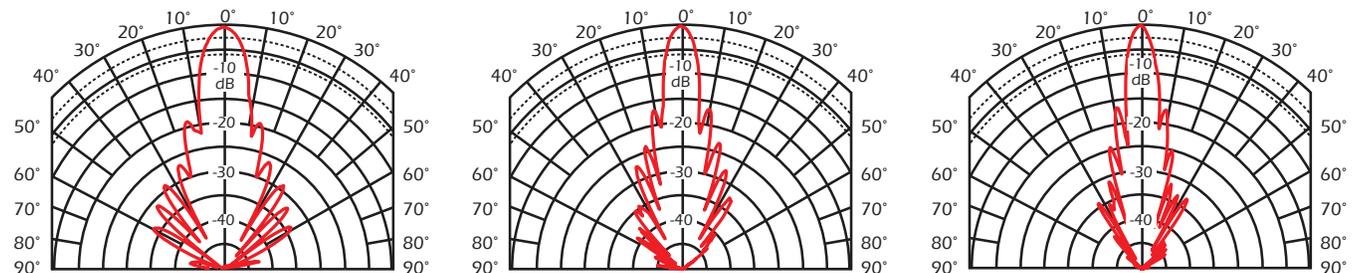
Cable Length: 10 m (33 ft)

**Notes:**

- (1) dB re 1 μPa per volt at 1 meter
- (2) dB re 1 volt per μPa
- (3) Sum of transmitting voltage response and receiving voltage response
- (4) CW Power ratings is for 20°C seawater temperature. Consult Airmar for different housing CW ratings.



### Transmit Radiation Pattern



Beamwidth	@ 130 kHz
-3 dB	8°
-6 dB	11°
-10 dB	13°

Beamwidth	@ 170 kHz
-3 dB	5°
-6 dB	7°
-10 dB	10°

Beamwidth	@ 210 kHz
-3 dB	4°
-6 dB	6°
-10 dB	8°

# Technical Data Catalog

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Note: Impedance data includes cable

**Balanced Impedance Table (Nominal Value) in 20°C Water**

Test Frequency (kHz)	Impedance Magnitude (Ω)	Phase Angle (°)	Series Resistance (Ω)	Series Reactance (Ω)	Parallel Conductance (mS)	Parallel Susceptance (mS)	Parallel Resistance (Ω)	Parallel Capacitance (pF)
100.00	220.47	53.26	131.89	176.67	2.71	-3.63	368.55	-5784.85
104.00	281.46	32.21	238.15	150.01	3.01	-1.89	332.64	-2897.86
108.00	269.04	2.00	268.88	9.40	3.71	-0.13	269.21	-191.34
112.00	205.58	-15.71	197.90	-55.68	4.68	1.32	213.57	1871.96
116.00	158.45	-25.23	143.33	-67.55	5.71	2.69	175.17	3691.53
120.00	124.84	-28.56	109.65	-59.69	7.04	3.83	142.14	5079.26
124.00	105.15	-28.78	92.16	-50.62	8.34	4.58	119.96	5876.99
125.00	101.53	-28.85	88.93	-48.98	8.63	4.75	115.91	6050.44
129.00	87.41	-29.03	76.43	-42.42	10.00	5.55	99.97	6849.70
130.00	84.11	-28.68	73.79	-40.36	10.43	5.70	95.87	6984.37
134.00	72.78	-26.05	65.39	-31.96	12.34	6.03	81.01	7166.26
138.00	65.13	-20.82	60.88	-23.15	14.35	5.46	69.68	6293.52
142.00	61.40	-13.57	59.69	-14.40	15.83	3.82	63.16	4281.84
146.00	61.79	-6.64	61.37	-7.14	16.08	1.87	62.21	2040.09
150.00	65.20	-1.05	65.19	-1.20	15.34	0.28	65.21	298.40
154.00	72.93	1.80	72.89	2.29	13.71	-0.43	72.96	-444.21
158.00	80.79	-0.64	80.79	-0.90	12.38	0.14	80.80	138.50
162.00	82.93	-4.26	82.70	-6.15	12.03	0.89	83.16	879.13
166.00	84.39	-6.46	83.86	-9.50	11.77	1.33	84.93	1278.85
170.00	84.51	-9.62	83.32	-14.13	11.67	1.98	85.72	1852.18
174.00	80.51	-10.18	79.25	-14.23	12.22	2.20	81.80	2007.81
178.00	81.72	-7.19	81.08	-10.22	12.14	1.53	82.36	1368.63
182.00	86.70	-6.73	86.10	-10.16	11.45	1.35	87.30	1181.50
186.00	92.43	-6.38	91.86	-10.27	10.75	1.20	93.01	1028.71
190.00	103.88	-8.52	102.74	-15.40	9.52	1.43	105.04	1194.99
194.00	112.01	-14.97	108.20	-28.94	8.63	2.31	115.94	1892.20
198.00	114.96	-19.80	108.16	-38.94	8.18	2.95	122.18	2368.63
202.00	120.70	-25.52	108.92	-52.00	7.48	3.57	133.75	2812.27
206.00	122.04	-33.29	102.02	-66.99	6.85	4.50	146.00	3474.63
210.00	120.11	-39.54	92.63	-76.46	6.42	5.30	155.75	4016.89
214.00	119.09	-46.43	82.08	-86.29	5.79	6.08	172.80	4524.73
218.00	114.08	-54.55	66.17	-92.93	5.08	7.14	196.70	5213.17
222.00	104.38	-61.42	49.94	-91.66	4.58	8.41	218.20	6031.16
226.00	94.34	-66.66	37.37	-86.62	4.20	9.73	238.14	6853.89
230.00	84.93	-70.63	28.17	-80.13	3.90	11.11	256.11	7686.08