

**80 to 130 kHz-A (Broadband)**  
Transformed to 100 ohms minimum (B1)

Power Rating:

- 600 W @ 1% duty cycle
- CW<sup>(4)</sup>: 6W in B75, B765, B785

43 mm (1.7 in) PZT

Active Area: 15 cm<sup>2</sup> (2.3 in<sup>2</sup>)

Radiating Surface: Urethane

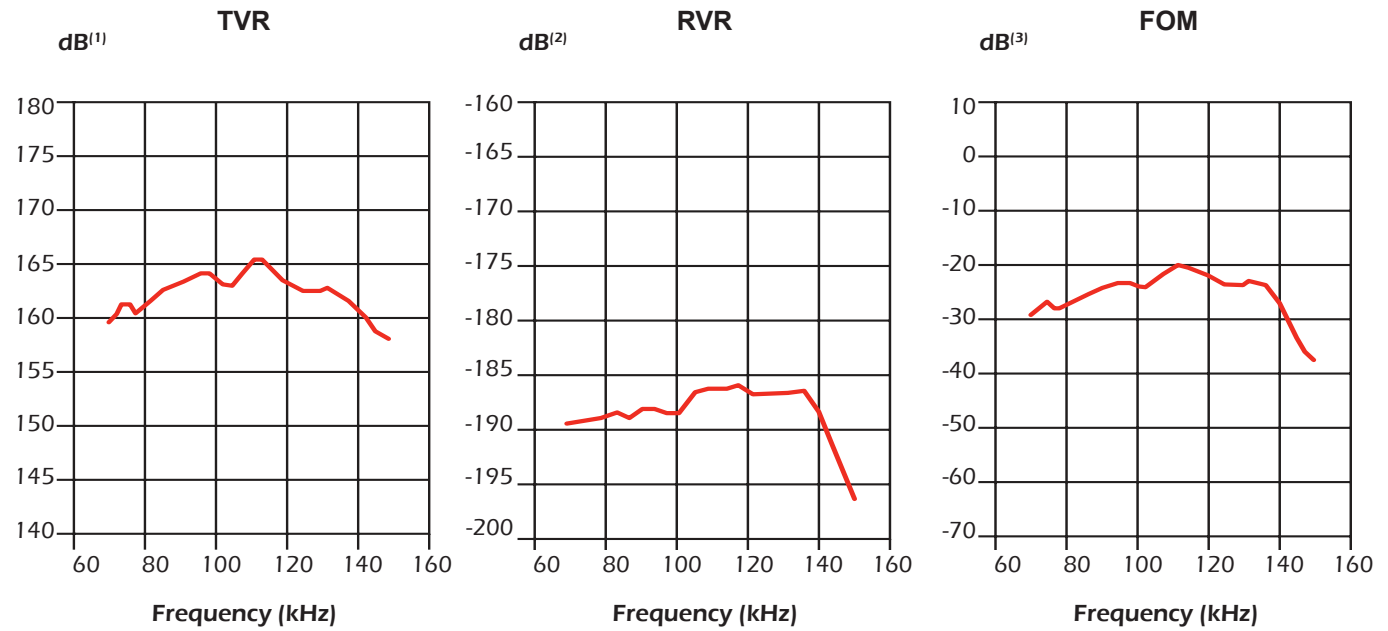
Q ≈ 2.5

Cable Type: C334

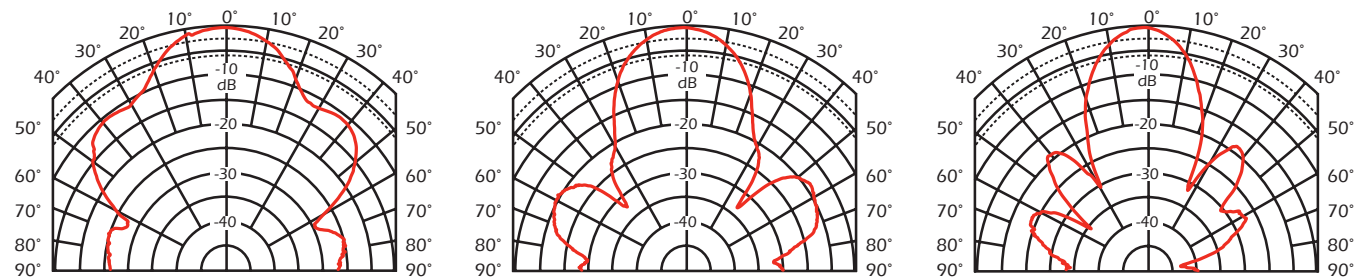
Cable Length: 12 m (40 ft)

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	@ 80 kHz
-3 dB	24°
-6 dB	33°
-10 dB	43°

Beamwidth	@ 100 kHz
-3 dB	20°
-6 dB	29°
-10 dB	36°

Beamwidth	@ 130 kHz
-3 dB	16°
-6 dB	23°
-10 dB	29°

# Technical Data Catalog

## 80 to 130 kHz-A (Broadband)

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)
70.00	112.82	57.74	60.22	95.40	4.73	-7.50	211.35	-17042.10
72.00	109.93	52.61	66.76	87.33	5.52	-7.23	181.01	-15975.96
74.00	106.06	51.34	66.25	82.82	5.89	-7.36	169.77	-15835.37
76.00	109.80	51.58	68.24	86.02	5.66	-7.14	176.67	-14942.55
78.00	117.91	48.81	77.66	88.72	5.59	-6.38	179.03	-13022.05
80.00	122.20	43.56	88.55	84.21	5.93	-5.64	168.63	-11219.11
82.00	121.09	38.46	94.82	75.31	6.47	-5.14	154.64	-9968.67
84.00	116.51	35.29	95.10	67.31	7.01	-4.96	142.74	-9394.42
86.00	112.35	34.52	92.57	63.67	7.33	-5.04	136.35	-9334.78
88.00	112.53	34.68	92.54	64.02	7.31	-5.06	136.83	-9144.45
90.00	115.22	33.69	95.86	63.91	7.22	-4.81	138.48	-8514.20
92.00	115.97	31.52	98.85	60.63	7.35	-4.51	136.04	-7799.69
94.00	114.40	29.63	99.44	56.57	7.60	-4.32	131.62	-7317.73
96.00	111.06	29.59	96.58	54.84	7.83	-4.45	127.72	-7370.08
98.00	109.88	32.16	93.01	58.49	7.70	-4.84	129.79	-7868.17
100.00	114.43	35.31	93.38	66.14	7.13	-5.05	140.22	-8038.96
102.00	126.23	37.76	99.81	77.29	6.26	-4.85	159.66	-7568.24
104.00	144.84	36.21	116.86	85.57	5.57	-4.08	179.51	-6242.24
106.00	162.27	27.60	143.81	75.17	5.46	-2.85	183.10	-4286.33
108.00	156.07	19.63	147.00	52.42	6.04	-2.15	165.69	-3171.62
110.00	143.31	17.48	136.69	43.05	6.66	-2.10	150.25	-3033.01
112.00	137.74	19.31	129.99	45.55	6.85	-2.40	145.95	-3411.58
114.00	139.98	23.09	128.77	54.89	6.57	-2.80	152.17	-3911.20
116.00	153.87	25.36	139.04	65.91	5.87	-2.78	170.28	-3819.54
118.00	175.82	23.36	161.41	69.73	5.22	-2.26	191.53	-3042.09
120.00	185.83	18.33	176.40	58.44	5.11	-1.69	195.76	-2244.56
122.00	195.12	15.64	187.90	52.59	4.94	-1.38	202.62	-1801.91
124.00	208.10	11.62	203.84	41.91	4.71	-0.97	212.45	-1242.15
126.00	217.11	7.58	215.22	28.63	4.57	-0.61	219.03	-767.19
128.00	226.43	3.49	226.01	13.77	4.41	-0.27	226.85	-333.95
130.00	234.00	-1.13	233.96	-4.60	4.27	0.08	234.05	102.84
132.00	238.43	-4.07	237.83	-16.93	4.18	0.30	239.03	359.03
134.00	257.22	-5.81	255.90	-26.02	3.87	0.39	258.55	467.17
136.00	294.93	-11.35	289.16	-58.06	3.32	0.67	300.82	781.14
138.00	327.05	-22.37	302.44	-124.46	2.83	1.16	353.66	1342.03
140.00	331.62	-36.85	265.37	-198.88	2.41	1.81	414.42	2055.87