

60 to 100 kHz-A (Broadband)

Transformed to 100 ohms minimum (B1)

Power Rating:

- 1 kW @ 1% duty cycle
- CW⁽⁴⁾: 12W in B175

7 Bars, PZT

Active Area: 23 cm² (3.57 in²)

Radiating Surface: Urethane

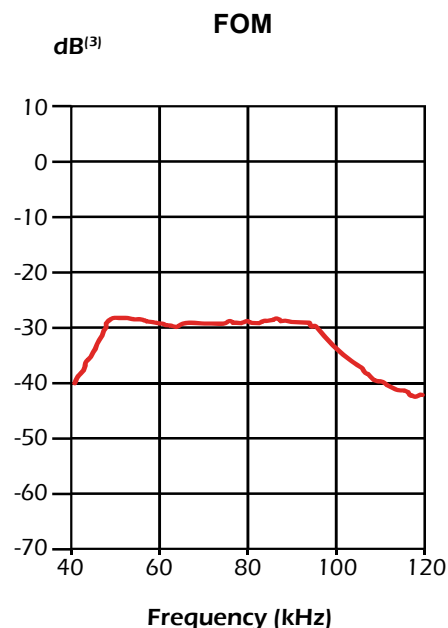
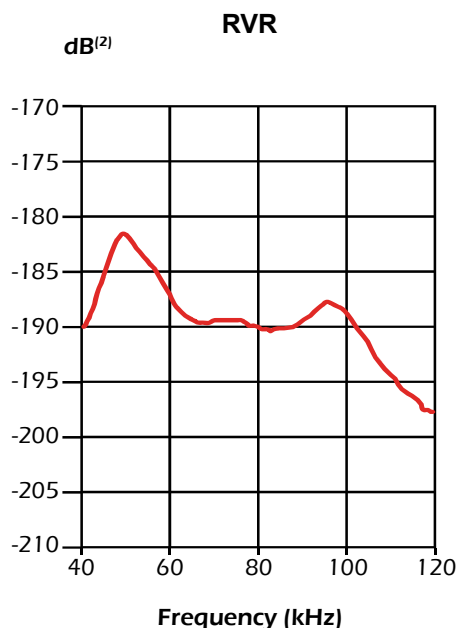
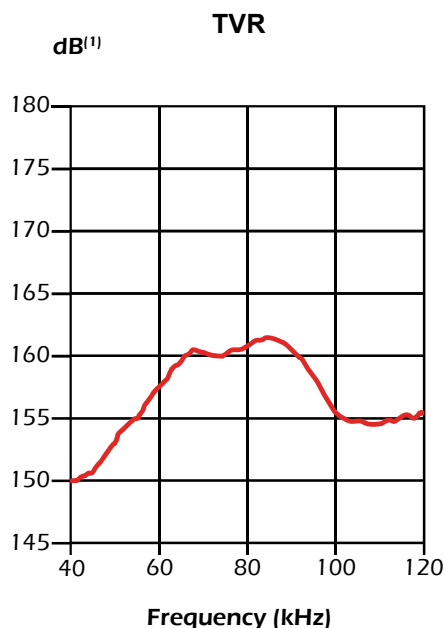
Q ≈ 2.5

Cable Type: C315

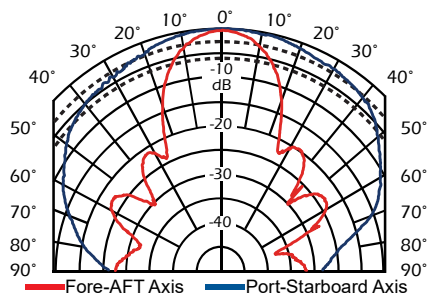
Cable Length: 12 m (39 ft)

Notes:

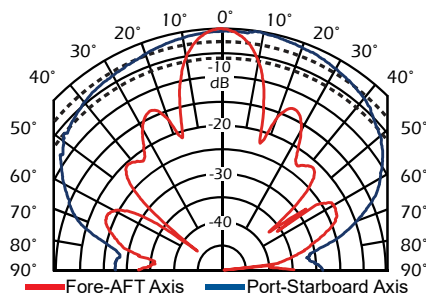
- (1) dB re 1 μPa per volt at 1 meter
- (2) dB re 1 volt per μPa
- (3) Sum of transmitting voltage response and receiving voltage response
- (4) CW Power ratings is for 20°C seawater temperature. Consult Airmar for different housing CW ratings.



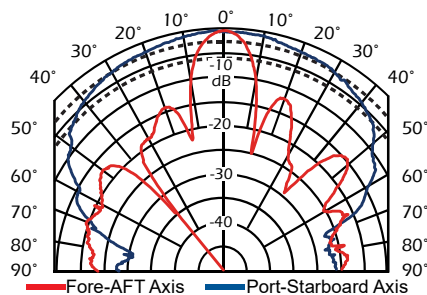
Transmit Radiation Pattern



Beamwidth @ 60 kHz	
-3 dB	20° / 60°
-6 dB	28° / 91°
-10 dB	35° / 112°



Beamwidth @ 80 kHz	
-3 dB	15° / 60°
-6 dB	20° / 92°
-10 dB	25° / 114°



Beamwidth @ 100 kHz	
-3 dB	12° / 65°
-6 dB	16° / 92°
-10 dB	20° / 107°

Technical Data Catalog

60 to 100 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)
40.00	180.14	79.43	33.06	177.08	1.02	-5.46	981.69	-21712.37
41.00	199.37	77.46	43.30	194.61	1.09	-4.90	917.99	-19005.83
45.00	310.86	61.86	146.61	274.12	1.52	-2.84	659.14	-10032.59
47.00	378.62	46.29	261.61	273.70	1.82	-1.91	547.96	-6465.46
49.00	412.99	26.01	371.16	181.11	2.18	-1.06	459.53	-3448.92
50.00	409.82	15.06	395.75	106.47	2.36	-0.63	424.39	-2017.75
51.00	383.91	5.99	381.81	40.10	2.59	-0.27	386.02	-848.96
53.00	340.21	-6.86	337.78	-40.66	2.92	0.35	342.67	1054.95
55.00	302.05	-19.81	284.17	-102.37	3.11	1.12	321.05	3247.03
56.00	273.39	-25.80	246.13	-119.01	3.29	1.59	303.67	4525.09
59.00	192.49	-35.11	157.47	-110.70	4.25	2.99	235.29	8059.95
60.00	171.65	-35.69	139.42	-100.14	4.73	3.40	211.34	9014.62
61.00	153.79	-35.65	124.96	-89.65	5.28	3.79	189.27	9888.84
62.00	139.71	-34.74	114.81	-79.61	5.88	4.08	170.01	10470.22
63.00	127.26	-32.20	107.69	-67.80	6.65	4.19	150.38	10577.19
65.00	110.79	-26.05	99.54	-48.65	8.11	3.96	123.32	9705.21
69.00	108.16	-10.69	106.28	-20.06	9.09	1.72	110.07	3955.93
70.00	112.18	-8.97	110.81	-17.50	8.80	1.39	113.57	3161.73
75.00	121.91	-10.00	120.05	-21.16	8.08	1.42	123.79	3022.18
78.00	118.23	-11.48	115.86	-23.53	8.29	1.68	120.64	3434.76
79.00	116.25	-11.48	113.92	-23.13	8.43	1.71	118.62	3448.39
80.00	113.44	-10.85	111.41	-21.35	8.66	1.66	115.50	3300.69
81.00	110.49	-9.61	108.94	-18.44	8.92	1.51	112.07	2968.54
84.00	106.04	-3.06	105.89	-5.65	9.42	0.50	106.19	952.39
85.00	107.27	0.12	107.27	0.23	9.32	-0.02	107.27	-37.93
87.00	113.77	5.64	113.22	11.17	8.75	-0.86	114.32	-1579.14
89.00	125.47	11.03	123.16	24.00	7.82	-1.52	127.83	-2726.56
90.00	133.35	13.50	129.67	31.13	7.29	-1.75	137.14	-3095.32
91.00	144.28	15.35	139.14	38.20	6.68	-1.83	149.62	-3209.24
95.00	217.38	14.21	210.73	53.36	4.46	-1.13	224.24	-1891.96
97.00	267.51	7.33	265.32	34.15	3.71	-0.48	269.72	-782.99
99.00	313.62	-3.60	313.00	-19.67	3.18	0.20	314.24	321.46
100.00	335.62	-10.08	330.44	-58.72	2.93	0.52	340.88	829.68
101.00	350.22	-17.70	333.63	-106.50	2.72	0.87	367.63	1368.24
102.00	359.92	-25.55	324.72	-155.23	2.51	1.20	398.93	1869.84
105.00	332.46	-47.09	226.35	-243.51	2.05	2.20	488.32	3339.30
109.00	257.78	-64.36	111.56	-232.39	1.68	3.50	595.65	5106.46
110.00	242.32	-66.81	95.40	-222.75	1.62	3.79	615.46	5488.68
111.00	228.22	-69.06	81.58	-213.15	1.57	4.09	638.47	5867.43
114.00	193.97	-73.52	55.04	-186.00	1.46	4.94	683.65	6901.66
115.00	184.76	-74.60	49.06	-178.13	1.44	5.22	695.84	7221.48
119.00	156.00	-77.74	33.12	-152.45	1.36	6.26	734.72	8377.66
120.00	150.35	-78.27	30.55	-147.21	1.35	6.51	739.83	8637.46