

40 to 75 kHz-A (Broadband)
 Transformed to 100 ohms minimum (B1)

Power Rating:

- 300 W @ 1% duty cycle
- CW⁽⁴⁾: 8W in B75, B765

34.9 mm (1.37 in) PZT

Active Area: 9.6 cm² (1.49 in²)

Radiating Surface: Urethane

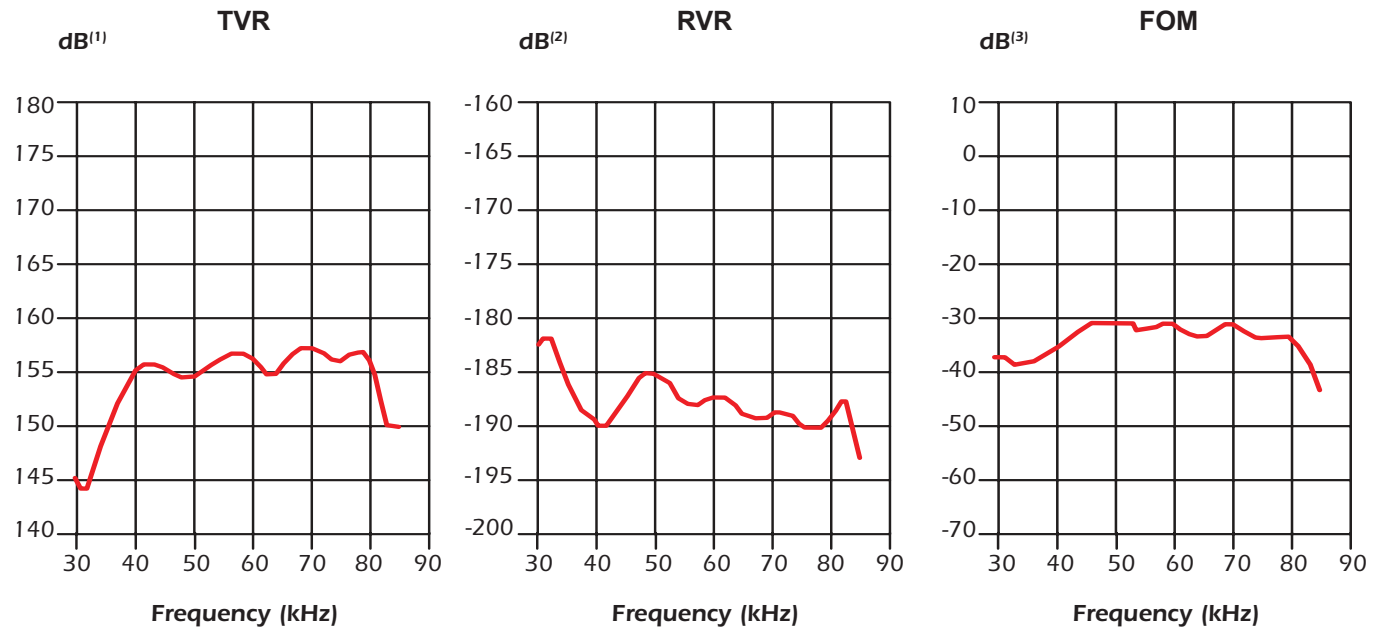
Q ≈ 2

Cable Type: C335

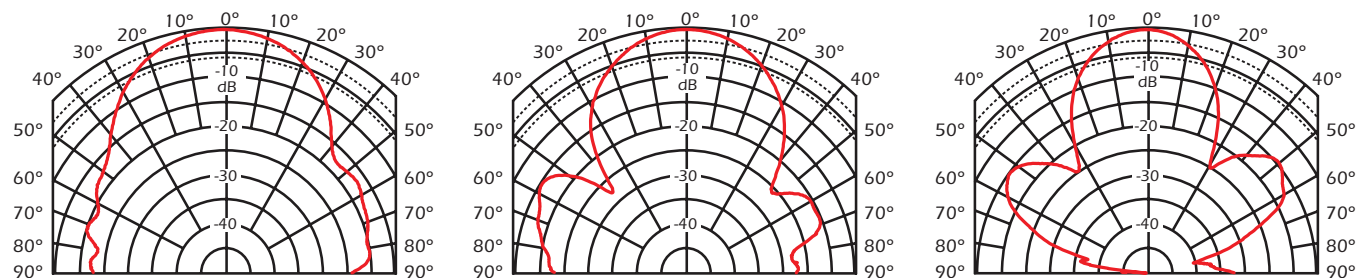
Cable Length: 12 m (40 ft)

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	@ 50 kHz
-3 dB	32°
-6 dB	45°
-10 dB	59°

Beamwidth	@ 65 kHz
-3 dB	28°
-6 dB	40°
-10 dB	51°

Beamwidth	@ 75 kHz
-3 dB	21°
-6 dB	30°
-10 dB	39°



Sensing Technology

Technical Data Catalog

40 to 75 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)
35.00	280.50	-39.59	216.15	-178.77	2.75	2.27	364.01	10331.93
36.00	222.38	-39.14	172.49	-140.36	3.49	2.84	286.70	12547.90
37.00	180.38	-37.05	143.97	-108.67	4.43	3.34	225.99	14366.86
38.00	150.31	-32.91	126.19	-81.67	5.59	3.61	179.04	15138.44
39.00	127.79	-26.20	114.66	-56.43	7.02	3.46	142.43	14100.23
41.00	108.82	-5.65	108.29	-10.70	9.15	0.90	109.35	3509.24
42.00	113.47	5.35	112.97	10.58	8.77	-0.82	113.96	-3115.06
43.00	126.37	13.74	122.76	30.01	7.69	-1.88	130.09	-6955.52
44.00	147.36	18.83	139.47	47.56	6.42	-2.19	155.69	-7921.99
46.00	202.86	17.06	193.94	59.50	4.71	-1.45	212.19	-5002.56
47.00	229.26	12.23	224.06	48.55	4.26	-0.92	234.58	-3127.95
48.00	249.49	4.80	248.61	20.89	3.99	-0.34	250.36	-1112.68
49.00	256.38	-3.36	255.94	-15.04	3.89	0.23	256.82	743.36
50.00	250.77	-10.57	246.52	-45.99	3.92	0.73	255.10	2327.82
51.00	237.78	-16.19	228.35	-66.30	4.04	1.17	247.60	3659.50
52.00	220.06	-19.99	206.80	-75.22	4.27	1.55	234.16	4754.44
53.00	203.43	-22.29	188.23	-77.15	4.55	1.86	219.85	5598.31
54.00	187.81	-22.26	173.81	-71.15	4.93	2.02	202.94	5945.49
56.00	169.55	-17.81	161.42	-51.87	5.62	1.80	178.09	5127.84
57.00	168.88	-14.34	163.62	-41.84	5.74	1.47	174.32	4095.67
58.00	174.92	-11.10	171.65	-33.68	5.61	1.10	178.26	3020.46
59.00	188.53	-9.55	185.91	-31.29	5.23	0.88	191.18	2374.60
60.00	206.18	-10.63	202.64	-38.04	4.77	0.89	209.78	2373.91
61.00	222.89	-14.16	216.12	-54.52	4.35	1.10	229.87	2863.11
62.00	230.76	-20.17	216.61	-79.57	4.07	1.49	245.84	3835.96
63.00	228.53	-26.46	204.58	-101.84	3.92	1.95	255.28	4926.37
64.00	214.52	-31.41	183.08	-111.81	3.98	2.43	251.36	6042.07
66.00	181.62	-34.16	150.29	-101.98	4.56	3.09	219.49	7455.22
67.00	170.54	-32.39	144.01	-91.36	4.95	3.14	201.97	7461.74
68.00	165.26	-29.46	143.90	-81.27	5.27	2.98	189.80	6964.78
69.00	165.84	-26.13	148.89	-73.03	5.41	2.66	184.71	6124.87
71.00	180.27	-23.16	165.75	-70.89	5.10	2.18	196.07	4889.82
72.00	189.42	-24.51	172.35	-78.57	4.80	2.19	208.17	4840.84
73.00	194.65	-26.45	174.28	-86.69	4.60	2.29	217.40	4988.39
74.00	195.93	-29.00	171.35	-95.00	4.46	2.47	224.02	5322.78
76.00	187.10	-31.10	160.20	-96.65	4.58	2.76	218.52	5782.00
77.00	181.70	-29.38	158.33	-89.15	4.80	2.70	208.53	5581.27
78.00	180.79	-25.42	163.28	-77.60	5.00	2.37	200.16	4844.68
79.00	189.84	-19.05	179.44	-61.98	4.98	1.72	200.85	3464.48
80.00	223.57	-12.15	218.56	-47.07	4.37	0.94	228.70	1873.50



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