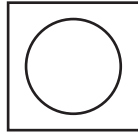


77/200 kHz-A (200kHz)

Power Rating: 300 W rms @ 1% duty cycle
 27mm (1.07") PZT
 Active Area: 5.8 cm² (0.90 in²)
 Radiating Surface: Urethane/Plastic

Array

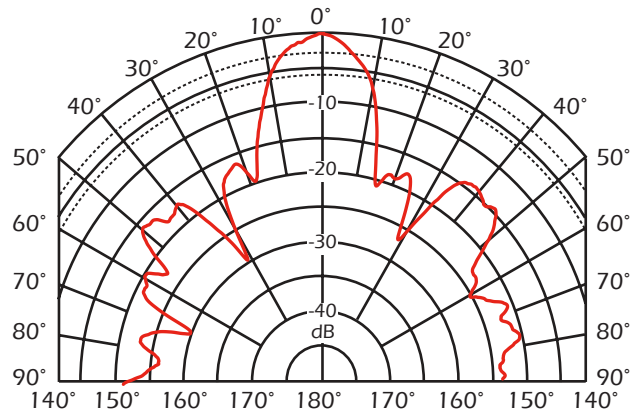


Beamwidth:

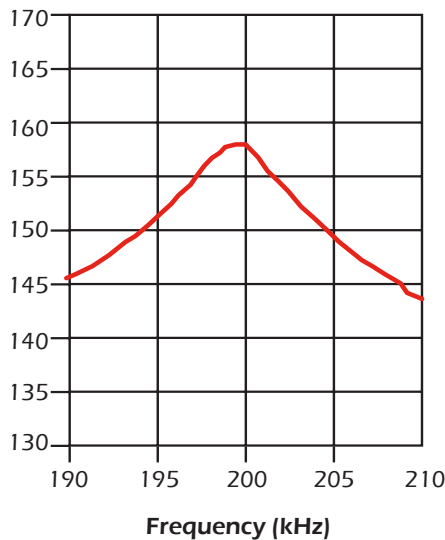
-3 dB: 13°
 -6 dB: 19°
 -10 dB: 24°

Directivity Index: 21
 Frequency Tolerance: +/-4kHz
 Peak TVR⁽¹⁾, nominal: 158.1 dB
 Peak TVR⁽¹⁾, minimum: 156.1 dB
 Q (transmit): 45
 Peak Source Level⁽⁴⁾: 210 dB
 Peak RVR⁽²⁾, nominal: -190.3 dB
 Peak Figure of Merit⁽³⁾: -33.4 dB

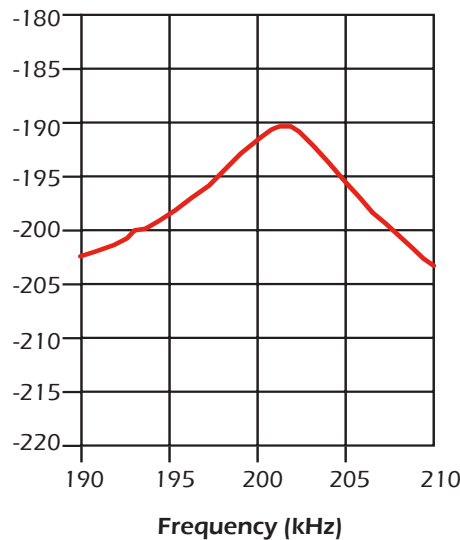
Transmit Radiation Pattern



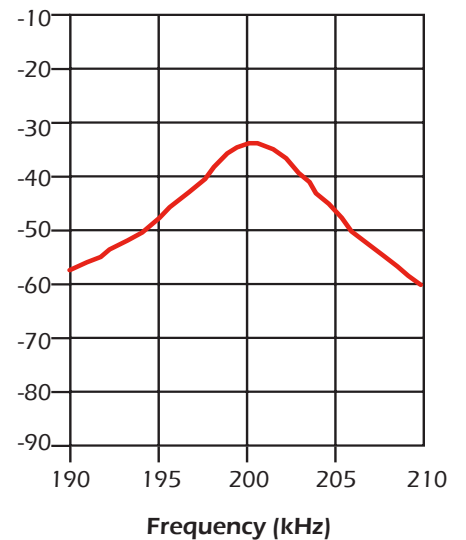
TVR
dB⁽¹⁾



RVR
dB⁽²⁾



FOM
dB⁽³⁾



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) Nominal peak TVR, rated power, and no cavitation

Technical Data Catalog

77/200 kHz-A (200kHz)

27mm (1.07") PZT

Cable Type: 22-1288-01
Cable Length: 10.3m (34')

Note:
Impedance data includes cable

Impedance Data		
	<i>Balanced</i>	<i>Unbalanced</i>
Parallel: Rp.	530 Ω: -20%, +40%	520 Ω: -20%, +40%
Parallel: Cp. (nominal)	1,040 pF	2,090 pF
Series [R - jX]: (nominal)	360-j240 Ω	180-j250 Ω
1 kHz capacitance: (nominal)	1,070 pF	2,130 pF

Balanced Impedance Table

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)
190.00	699.37	-86.63	41.11	-698.16	0.08	1.43	11898.76	1195.66
191.00	674.07	-85.89	48.34	-672.33	0.11	1.48	9398.80	1233.00
191.50	660.38	-85.49	51.90	-658.33	0.12	1.51	8401.93	1254.62
192.00	646.86	-84.96	56.82	-644.36	0.14	1.54	7364.54	1276.53
193.00	616.73	-83.68	67.92	-612.98	0.18	1.61	5600.06	1328.97
193.50	600.75	-82.84	74.83	-596.07	0.21	1.65	4823.06	1358.47
194.00	583.61	-81.89	82.33	-577.77	0.24	1.70	4137.09	1391.66
194.50	565.38	-80.78	90.63	-558.07	0.28	1.75	3527.08	1428.58
195.00	546.63	-79.31	101.43	-537.14	0.34	1.80	2946.05	1467.17
196.00	506.46	-75.55	126.35	-490.44	0.49	1.91	2029.98	1552.63
196.50	485.45	-72.90	142.78	-463.98	0.61	1.97	1650.58	1594.64
197.00	463.09	-69.54	161.89	-433.87	0.75	2.02	1324.63	1634.50
197.50	442.49	-65.21	185.52	-401.72	0.95	2.05	1055.38	1653.38
198.00	425.13	-59.55	215.42	-366.51	1.19	2.03	839.00	1630.02
199.00	414.61	-43.94	298.56	-287.69	1.74	1.67	575.77	1338.46
199.50	433.94	-34.31	358.43	-244.60	1.90	1.30	525.35	1036.29
200.00	478.85	-24.80	434.69	-200.84	1.90	0.88	527.49	697.02
200.50	555.36	-17.21	530.50	-164.29	1.72	0.53	581.38	422.84
201.00	670.59	-11.82	656.38	-137.31	1.46	0.31	685.11	241.78
202.00	999.20	-10.05	983.88	-174.32	0.99	0.17	1014.76	137.56
202.50	1215.58	-13.23	1183.32	-278.20	0.80	0.19	1248.72	147.97
203.00	1442.65	-18.61	1367.24	-460.31	0.66	0.22	1522.21	173.40
203.50	1656.25	-26.61	1480.77	-741.95	0.54	0.27	1852.53	211.53
204.00	1815.26	-35.84	1471.62	-1062.78	0.45	0.32	2239.14	251.63
205.00	1883.04	-53.11	1130.34	-1506.05	0.32	0.42	3136.98	329.75
205.50	1834.64	-60.08	915.09	-1590.13	0.27	0.47	3678.22	365.88
206.00	1765.63	-65.44	733.79	-1605.93	0.24	0.52	4248.42	398.00
206.50	1686.02	-69.64	586.73	-1580.64	0.21	0.56	4844.96	428.56
207.00	1614.31	-72.99	472.30	-1543.68	0.18	0.59	5517.71	455.44
208.00	1490.29	-77.70	317.56	-1456.06	0.14	0.66	6993.93	501.64
208.50	1437.22	-79.53	261.28	-1413.27	0.13	0.68	7905.59	522.27
209.00	1388.26	-80.98	217.64	-1371.09	0.11	0.71	8855.36	541.75
210.00	1302.95	-83.22	153.78	-1293.84	0.09	0.76	11039.99	577.60