

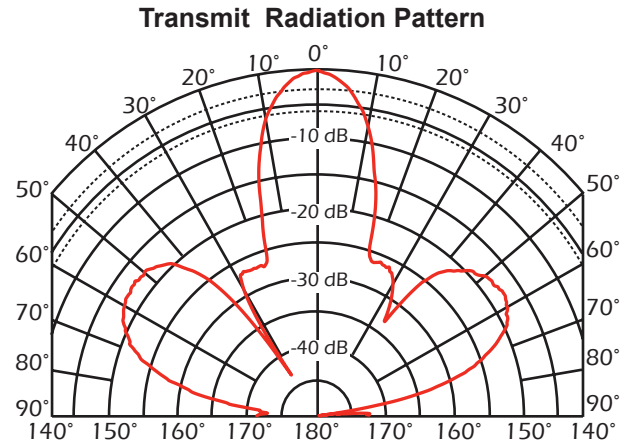
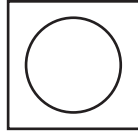
235 kHz-K

Power Rating: 250 W rms @ 1% duty cycle
 33 mm (1.30") PZT
 Active Area: 8.6 cm²
 Radiating Surface: Urethane

Beamwidth:
 -3 dB: 12°
 -6 dB: 17°
 -10 dB: 21°

Directivity Index: 24
 Frequency Tolerance: ± 8 kHz
 Peak TVR⁽¹⁾, nominal: 162 dB
 Peak TVR⁽¹⁾, minimum: 160 dB
 Q (transmit): 19
 Peak Source Level⁽⁴⁾: 212 dB
 Peak RVR⁽²⁾, nominal: -191 dB
 Peak Figure of Merit⁽³⁾: -29.9 dB

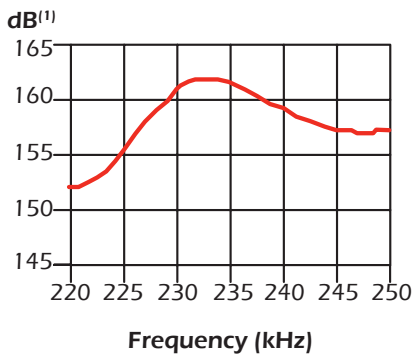
Array



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

TVR



RVR

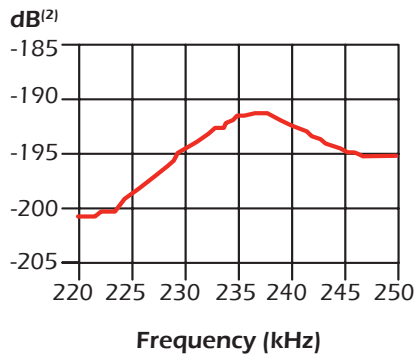
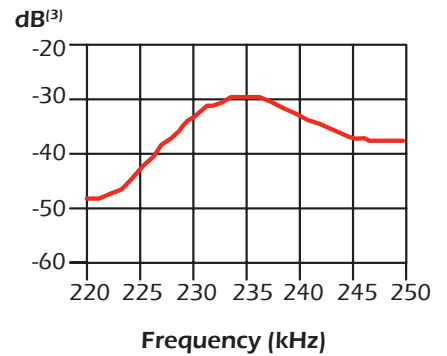


Figure of Merit



Technical Data Catalog

235 kHz-K

33 mm (1.30") PZT

Cable Type: C47

Cable Length: 9 m (30')

Note:

Impedance data includes cable

Impedance Data	
	<i>Balanced</i>
Parallel: Rp.	390 Ω: -20%, +40%
Parallel: Cp. (nominal)	980 pF
Series [R - jX]: (nominal)	230 - j190 Ω
1 kHz capacitance: (nominal)	2,490 pF: ±20%

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)
220.00	387.35	-75.00	100.26	-374.14	0.67	2.49	1496.45	1804.02
221.00	380.56	-75.77	93.57	-368.88	0.65	2.55	1547.78	1834.25
222.00	370.61	-76.29	87.82	-360.06	0.64	2.62	1564.07	1879.31
223.00	358.19	-76.41	84.17	-348.16	0.66	2.71	1524.22	1936.73
224.00	344.58	-76.12	82.67	-334.52	0.70	2.82	1436.26	2001.72
225.00	330.21	-75.35	83.50	-319.48	0.77	2.93	1305.77	2072.52
226.00	315.41	-73.99	87.00	-303.18	0.87	3.05	1143.50	2146.10
227.00	300.95	-71.93	93.36	-286.10	1.03	3.16	970.11	2214.77
228.00	287.50	-68.91	103.47	-268.24	1.25	3.25	798.88	2265.29
229.00	275.91	-64.90	117.04	-249.85	1.54	3.28	650.42	2281.10
230.00	268.55	-59.66	135.63	-231.78	1.88	3.21	531.71	2223.93
231.00	268.17	-53.45	159.72	-215.42	2.22	3.00	450.27	2063.79
232.00	276.94	-46.81	189.54	-201.91	2.47	2.63	404.63	1806.04
233.00	298.17	-40.53	226.64	-193.75	2.55	2.18	392.28	1488.65
234.00	331.11	-35.80	268.57	-193.66	2.45	1.77	408.22	1201.47
235.00	375.78	-32.95	315.35	-204.36	2.23	1.45	447.79	980.14
236.00	428.64	-32.62	361.02	-231.09	1.96	1.26	508.94	848.18
237.00	484.62	-34.10	401.28	-271.72	1.71	1.16	585.27	776.94
238.00	536.28	-37.32	426.48	-325.14	1.48	1.13	674.35	755.99
239.00	578.31	-41.59	432.54	-383.87	1.29	1.15	773.21	764.34
240.00	608.23	-46.09	421.86	-438.16	1.14	1.18	876.96	785.42
241.00	623.10	-50.49	396.44	-480.72	1.02	1.24	979.37	817.67
242.00	627.94	-54.65	363.28	-512.20	0.92	1.30	1085.44	854.28
243.00	624.77	-57.82	332.71	-528.82	0.85	1.35	1173.22	887.31
244.00	616.93	-60.40	304.77	-536.40	0.80	1.41	1248.82	919.26
245.00	607.96	-62.36	282.05	-538.57	0.76	1.46	1310.45	946.57
246.00	599.53	-63.76	265.11	-537.73	0.74	1.50	1355.82	967.89
247.00	593.57	-64.72	253.48	-536.73	0.72	1.52	1389.96	981.59
248.00	591.47	-65.40	246.23	-537.78	0.70	1.54	1420.78	986.52
249.00	593.84	-65.92	242.29	-542.16	0.69	1.54	1455.49	982.68
250.00	600.77	-66.75	237.17	-551.97	0.66	1.53	1521.75	973.61