

50/200 kHz – Alq (50 kHz)

Power rating: 600 W_{rms} @ 2% duty cycle

44mm (1.75") PZT

Active Area: 15.5 cm²

Layered Plastic Urethane Window

Beamwidth:

-3dB: 38°

-6dB: 57°

-10dB: 82°

Directivity Index: 12.4

Frequency Tolerance: ±2kHz

Peak TVR⁽¹⁾, nominal: 148dB

Peak TVR⁽¹⁾, minimum: 146dB

Q (transmit): 5

Peak Source Level⁽⁴⁾: 207dB

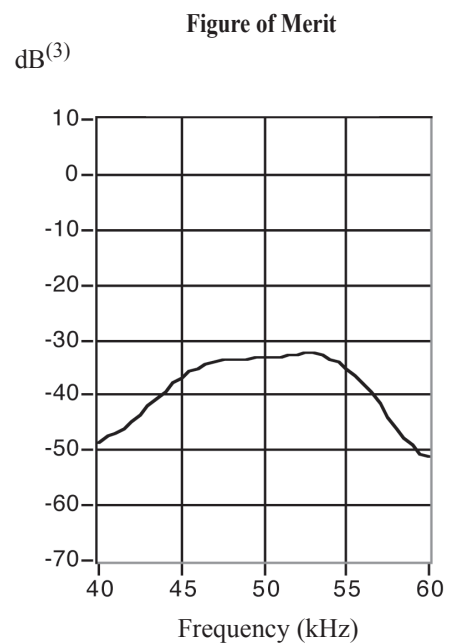
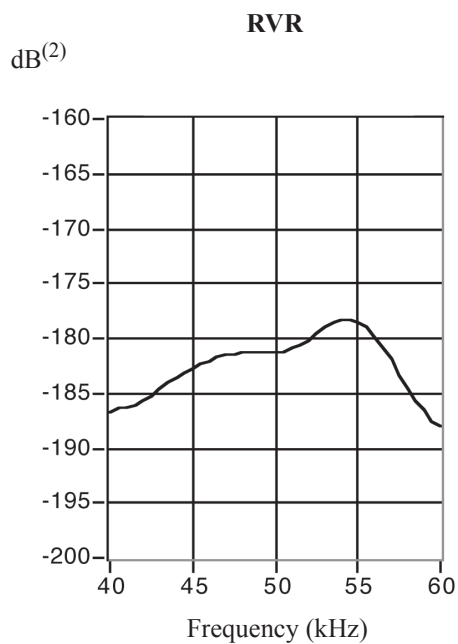
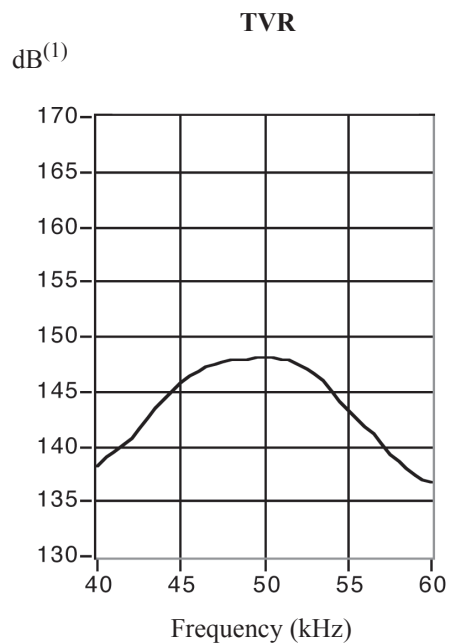
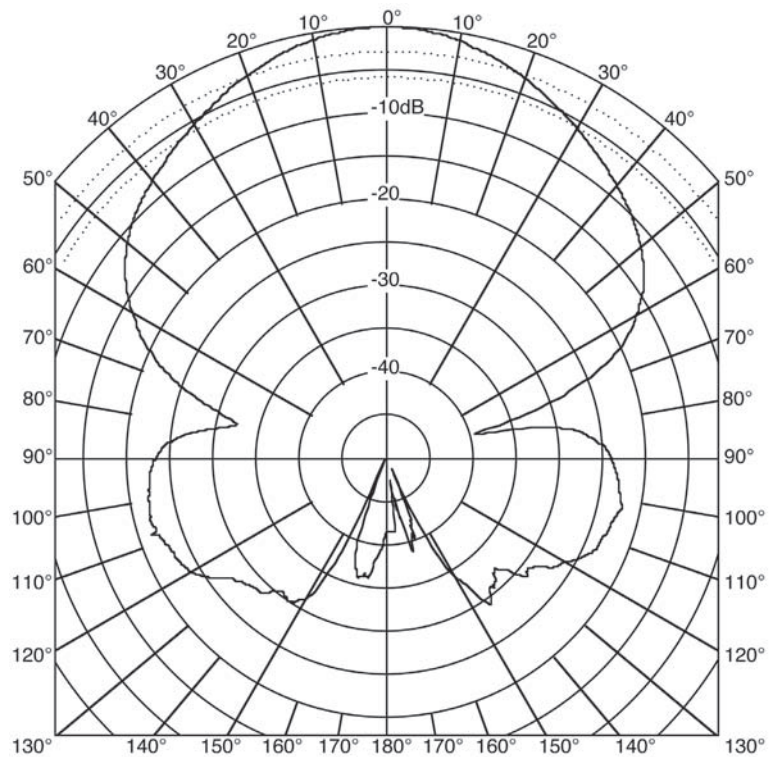
Peak RVR⁽²⁾, nominal: -182 dB

Peak Figure of Merit⁽³⁾: -32dB

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

Transmit Radiation Pattern



Technical Data Catalog

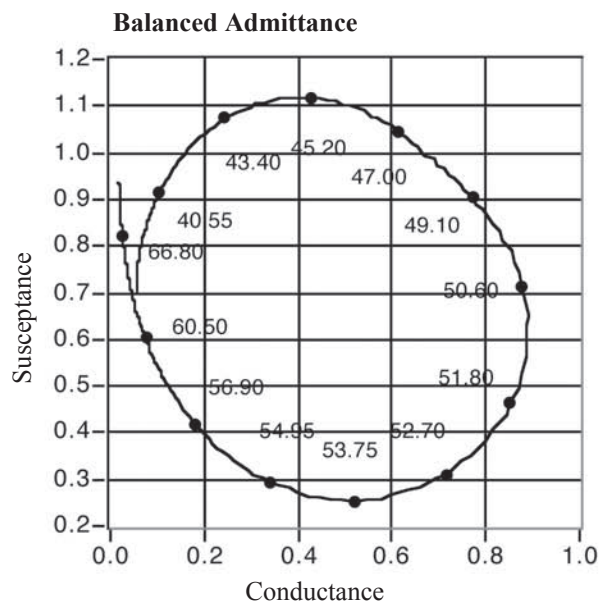
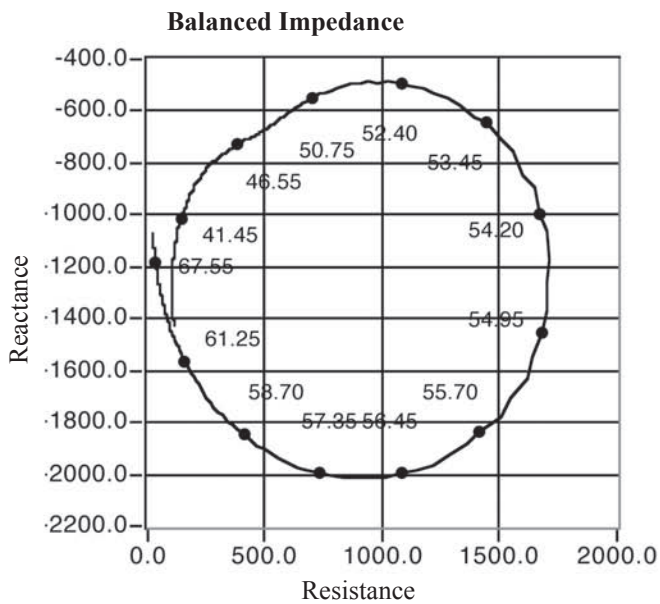
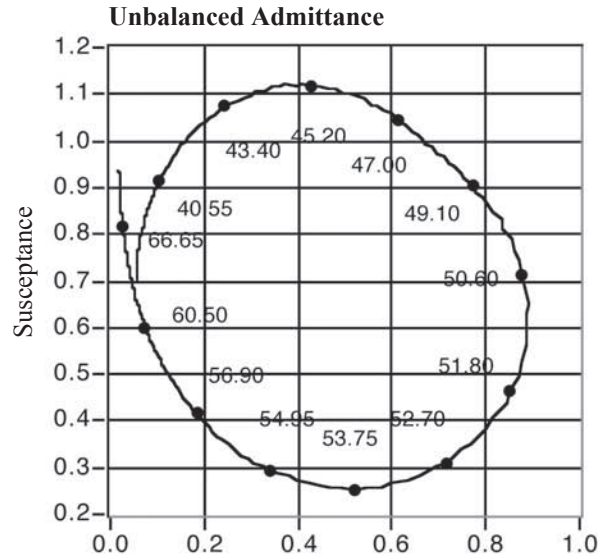
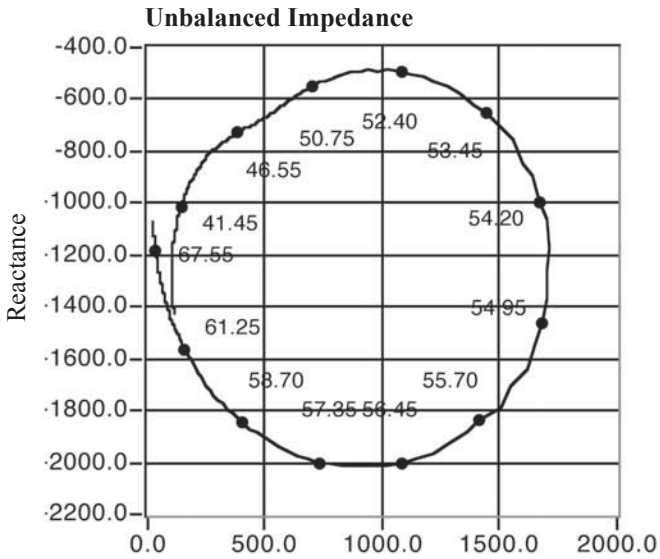
50/200 kHz – Alq (50 kHz)

44mm (1.75") PZT

Cable Type: C172

Cable Length: 7.6m (25.0')

Impedance Data		
	Balanced	Unbalanced
Parallel: Rp.	860 ohms-20%,+40%	860 ohms-20%,+40%
Parallel: Cp. (nominal)	2660pF	2660pF
Series [R – jX] (nominal)	600 – j520 ohms	600 – j520 ohms
1 kHz Capacitance	2200pF±20%	2180pF±20%



50/200 kHz – Alq (200 kHz)

Power rating: 600 W_{rms} @ 2% duty cycle
 44mm (1.75") PZT
 Active Area: 15.5cm²
 Layered Plastic Urethane Window

Beamwidth:

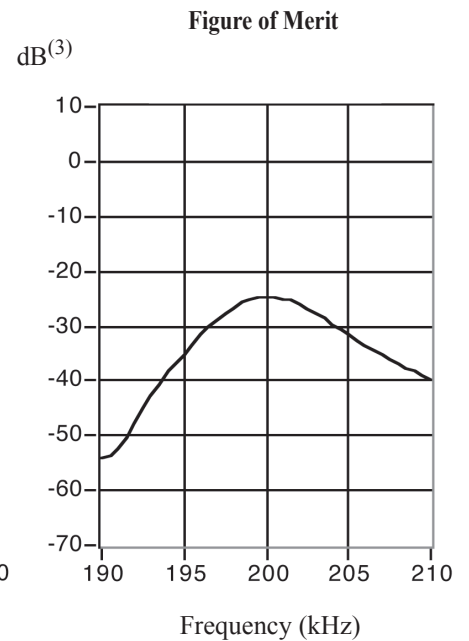
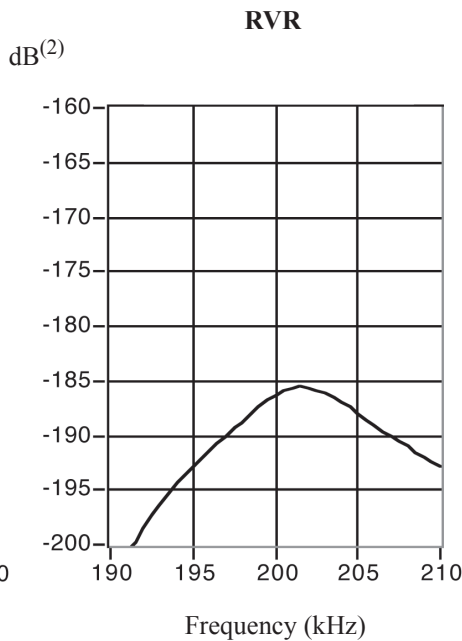
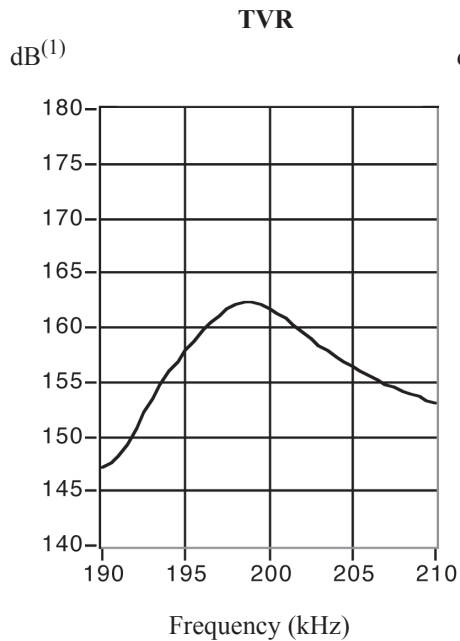
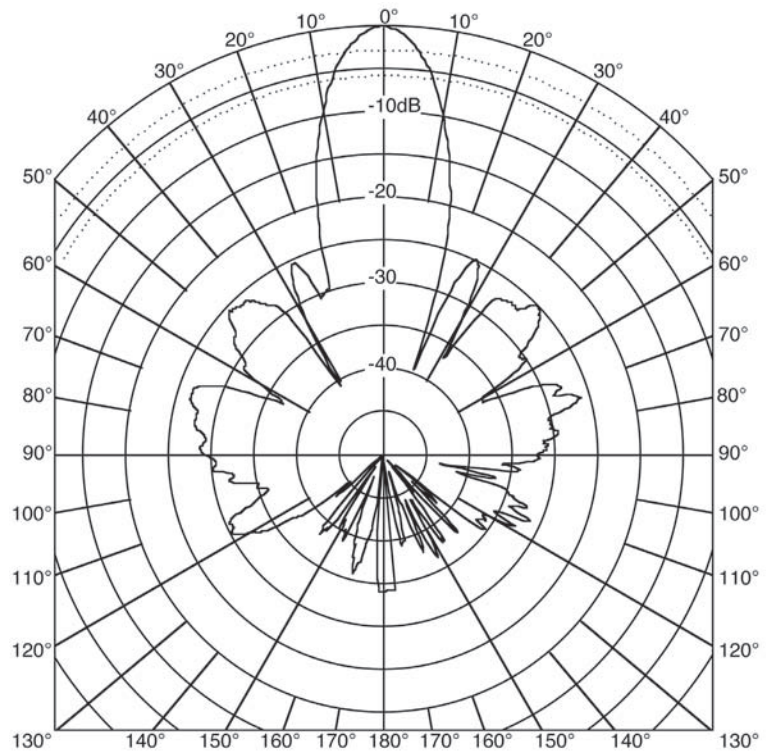
-3dB: 12°
 -6dB: 17°
 -10dB: 22°

Directivity Index: 25.6
 Frequency Tolerance: ±4kHz
 Peak TVR⁽¹⁾, nominal: 162dB
 Peak TVR⁽¹⁾, minimum: 160dB
 Q (transmit): 37
 Peak Source Level⁽⁴⁾: 216dB
 Peak RVR⁽²⁾, nominal: -186dB
 Peak Figure of Merit⁽³⁾: -24dB

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

Transmit Radiation Pattern



Technical Data Catalog

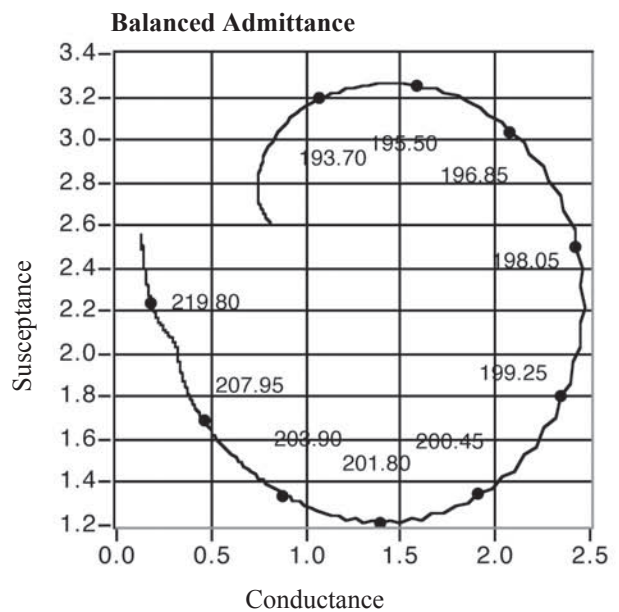
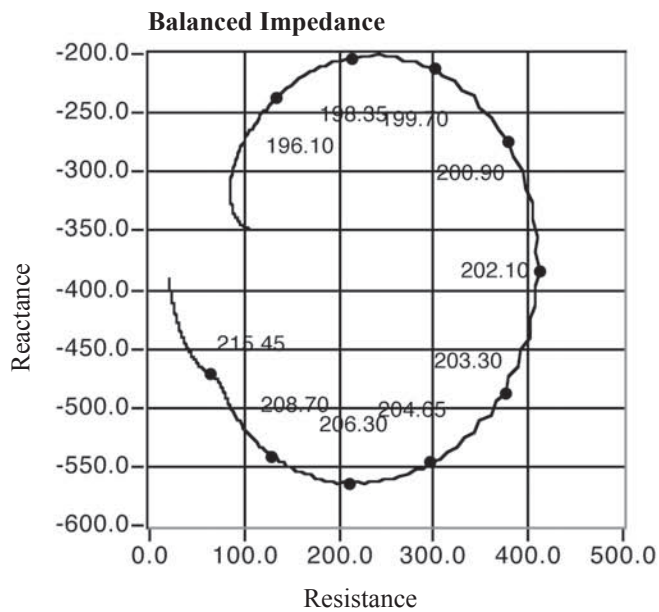
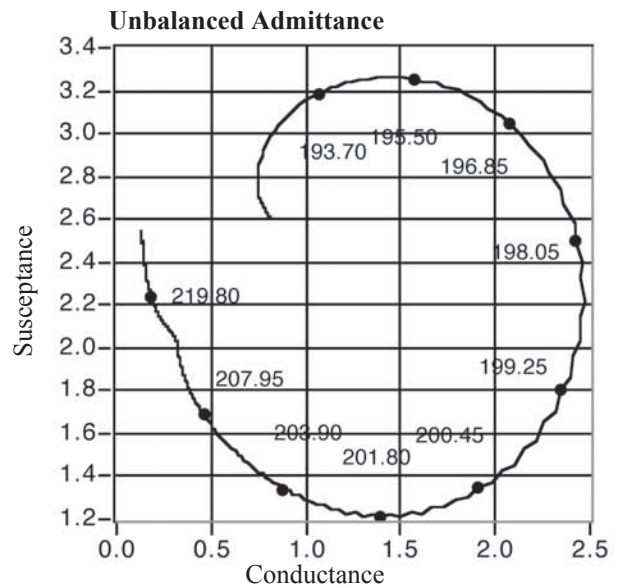
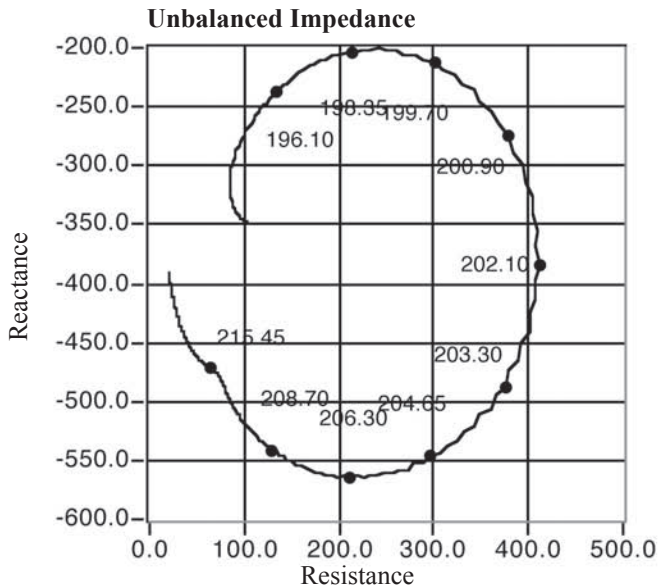
50/200 kHz – Alq (200 kHz)

44mm (1.75") PZT

Cable Type: C172

Cable Length: 7.6m (25.0')

Impedance Data		
	Balanced	Unbalanced
Parallel: Rp.	370 ohms-20%,+40%	370 ohms-20%,+40%
Parallel: Cp. (nominal)	240pF	240pF
Series [R – jX] (nominal)	1015 – j350 ohms	1015 – j350 ohms
1 kHz Capacitance	2180pF±20%	2180 pF±20%



50/200 kHz – A (50 kHz)

Power rating: 600 W_{rms} @ 2% duty cycle
 44mm (1.75") PZT
 Active Area: 15.5 cm²
 Layered Plastic Urethane Window

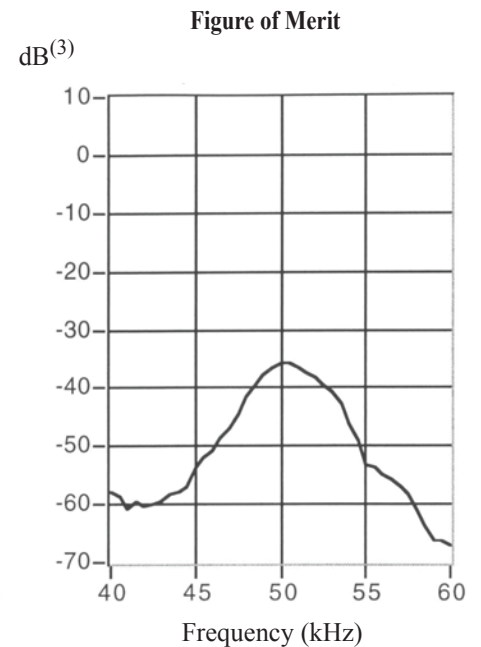
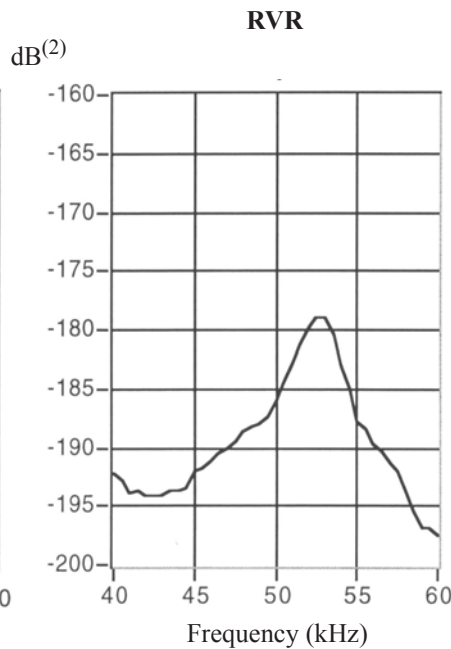
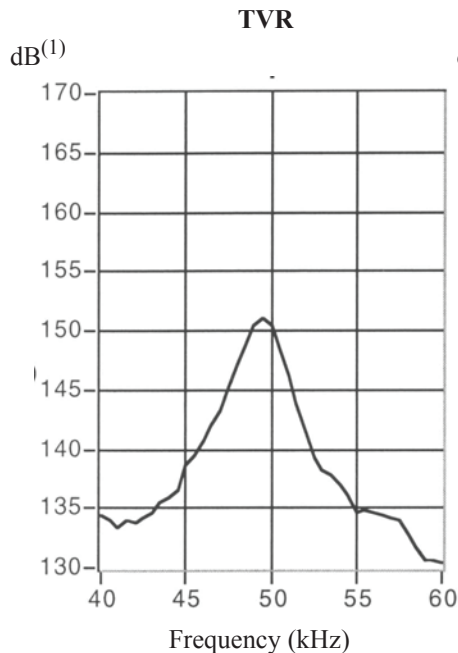
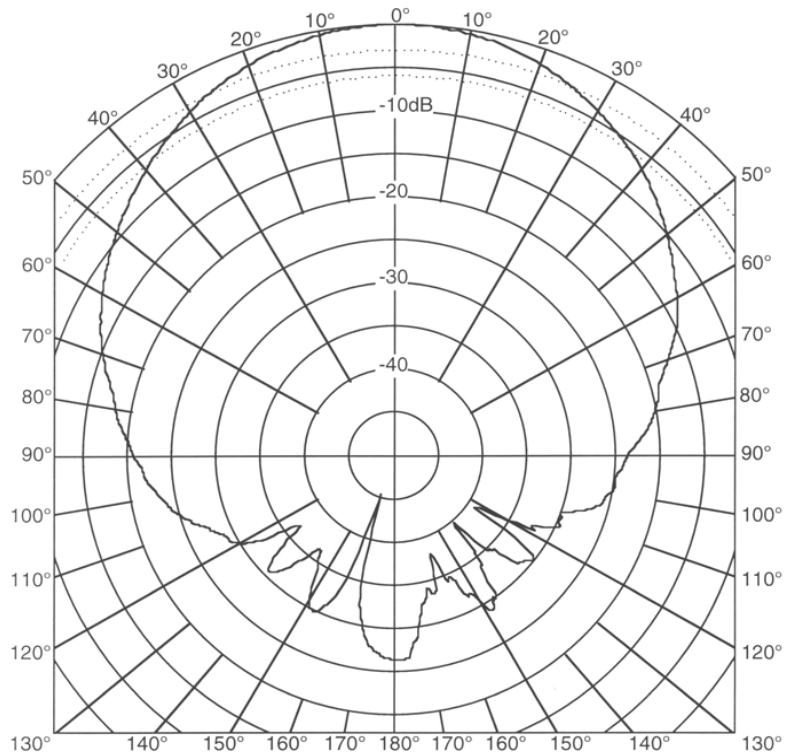
Beamwidth:
 -3dB: 45°
 -6dB: 69°
 -10dB: 94°

Directivity Index: 13.6
 Frequency Tolerance: ±2kHz
 Peak TVR⁽¹⁾, nominal: 151 dB
 Peak TVR⁽¹⁾, minimum: 149 dB
 Q (transmit): 21
 Peak Source Level⁽⁴⁾: 205 dB
 Peak RVR⁽²⁾, nominal: -179 dB
 Peak Figure of Merit⁽³⁾: -35 dB

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

Transmit Radiation Pattern



Technical Data Catalog

50/200 kHz – A (50kHz)

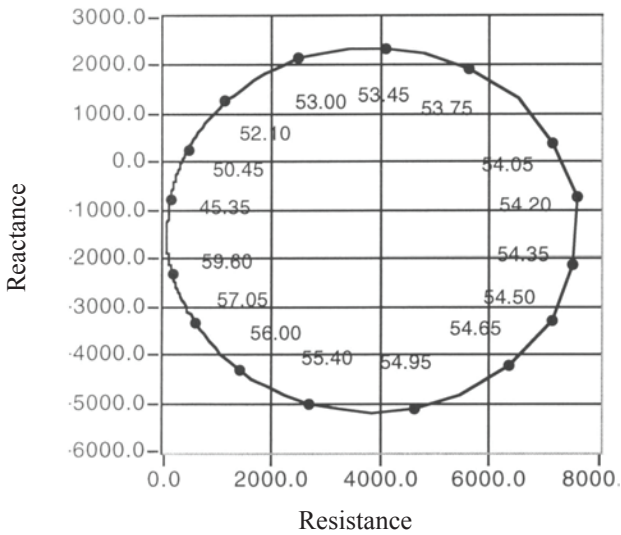
44mm (1.75")

Cable Type: C2

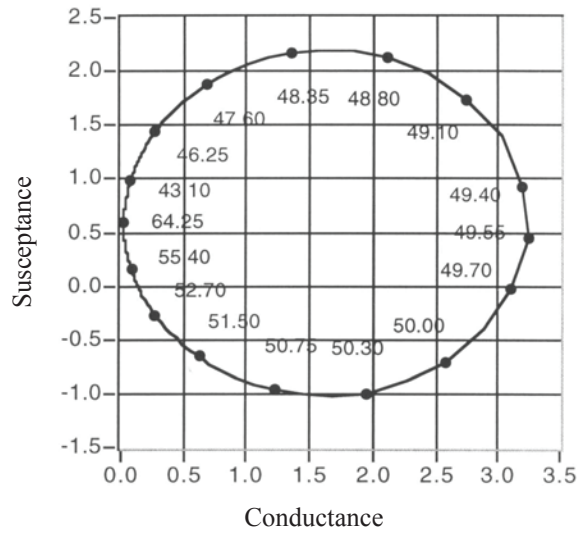
Cable Length: 7.6m (25.0')

Impedance Data		
	Balanced	Unbalanced
Parallel: Rp.	300ohms-20%,+40%	300ohms-20%,+40%
Parallel: Cp. (nominal)	2000pF	3000pF
Series [R – jX] (nominal)	310 – j25 ohms	295 – j41 ohms
1 kHz Capacitance	2430pF±20%	3470 pF±20%

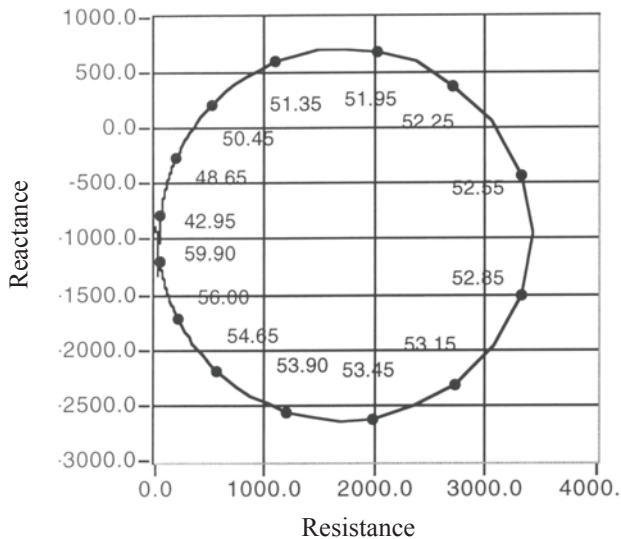
Unbalanced Impedance



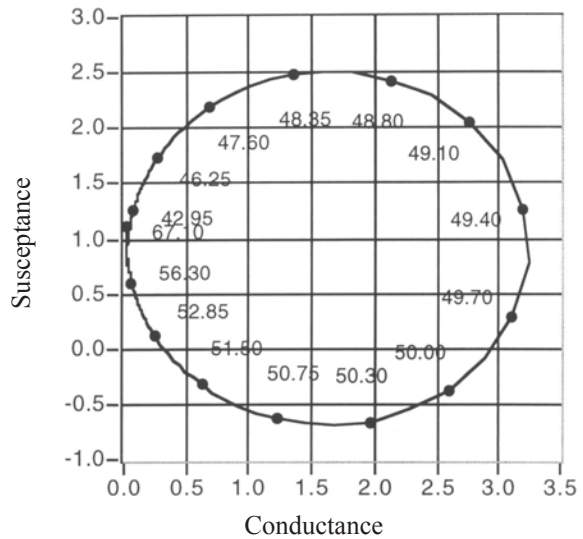
Unbalanced Admittance



Balanced Impedance



Balanced Admittance



50/200 kHz – A (200 kHz)

Power rating: 600 W_{rms} @ 2% duty cycle
 44mm (1.75") PZT
 Active Area: 15.5cm²
 Layered Plastic Urethane Window

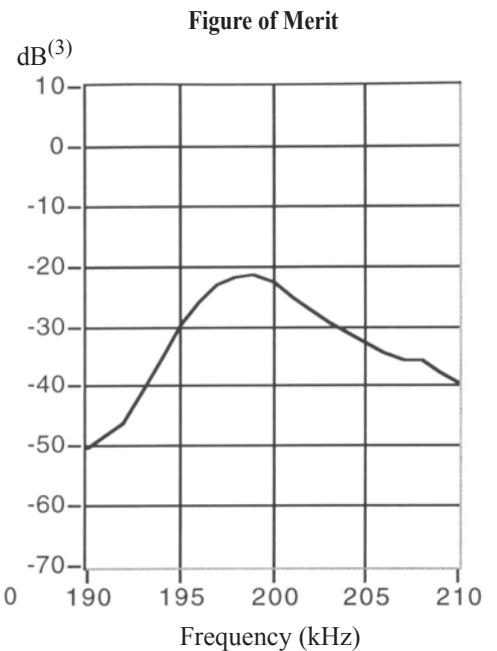
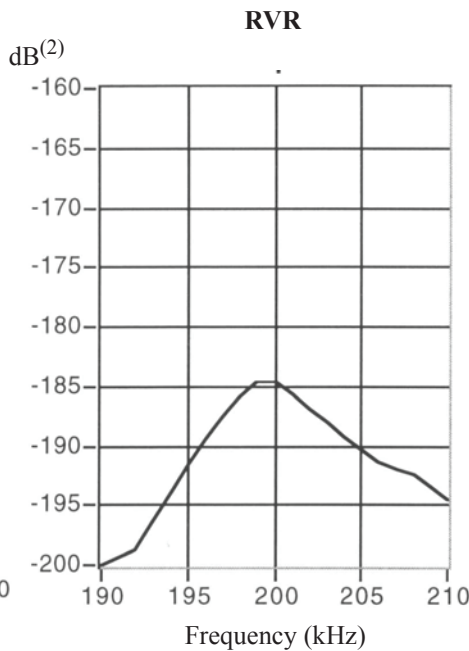
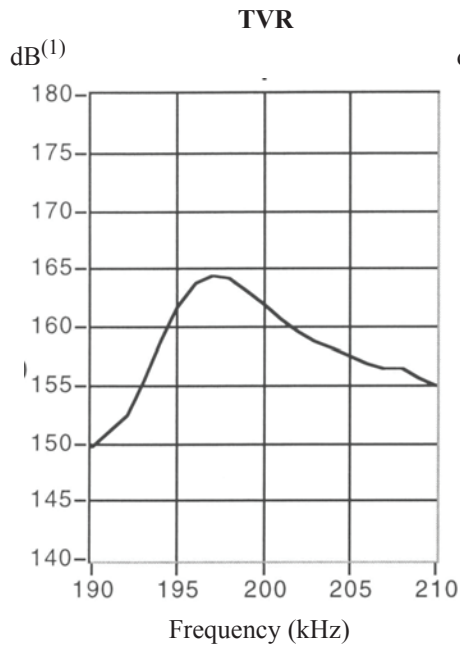
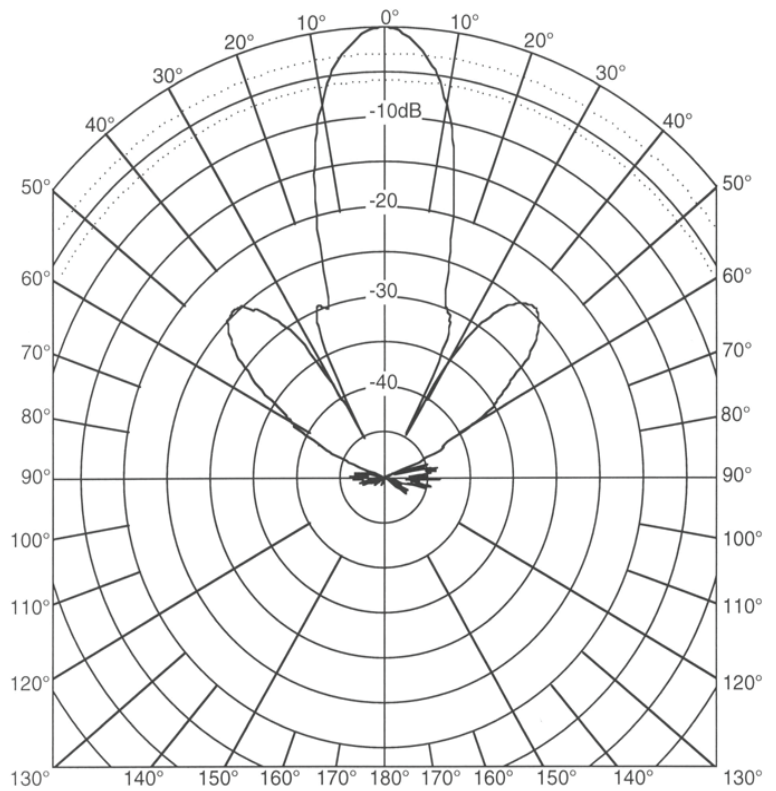
Beamwidth:
 -3dB: 11°
 -6dB: 16°
 -10dB: 21°

Directivity Index: 25.6
 Frequency Tolerance: ±4kHz
 Peak TVR⁽¹⁾, nominal: 164dB
 Peak TVR⁽¹⁾, minimum: 162dB
 Q (transmit): 36
 Peak Source Level⁽⁴⁾: 217dB
 Peak RVR⁽²⁾, nominal: -185dB
 Peak Figure of Merit⁽³⁾: -22dB

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

Transmit Radiation Pattern



Technical Data Catalog

50/200 kHz – A (200 kHz)

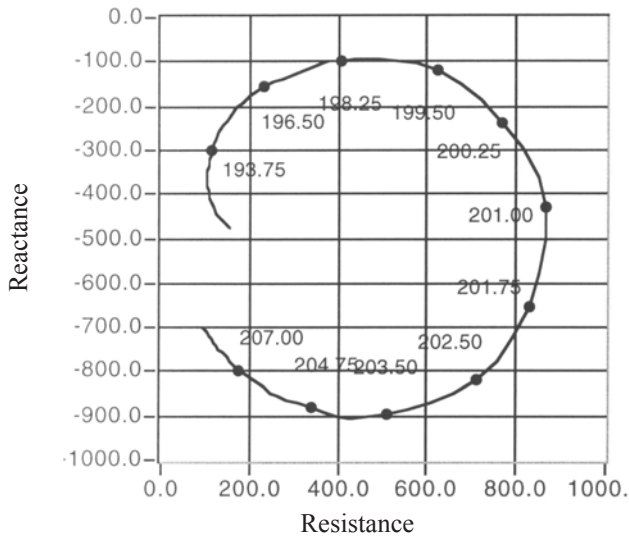
44mm (1.75") PZT

Cable Type: C172

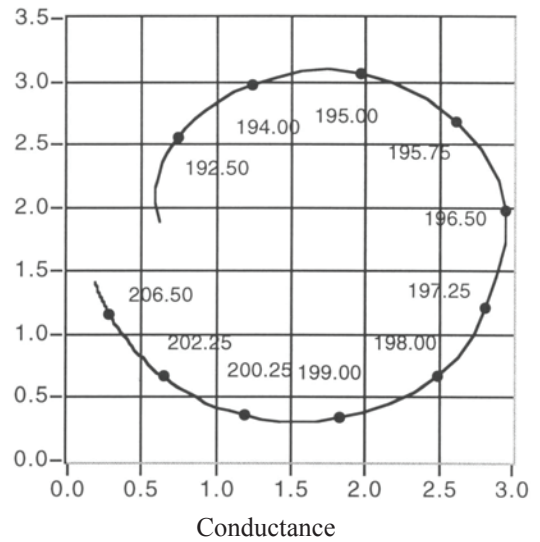
Cable Length: 7.6m (25.0')

Impedance Data		
	Balanced	Unbalanced
Parallel: Rp.	340ohms-20%,+40%	340ohms-20%,+40%
Parallel: Cp. (nominal)	1180pF	2430pF
Series [R – jX] (nominal)	300 – j30 ohms	235 – j50 ohms
1 kHz Capacitance	2430pF±20%	3460 pF±20%

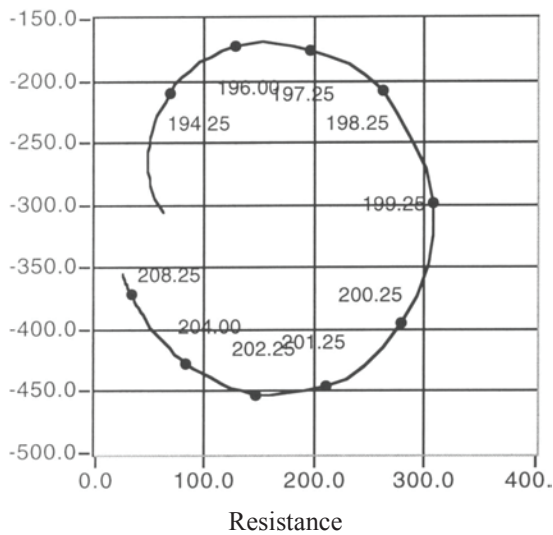
Unbalanced Impedance



Unbalanced Admittance



Balanced Impedance



Balanced Admittance

