

50/200 kHz – A (50 kHz)

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

Beamwidth:

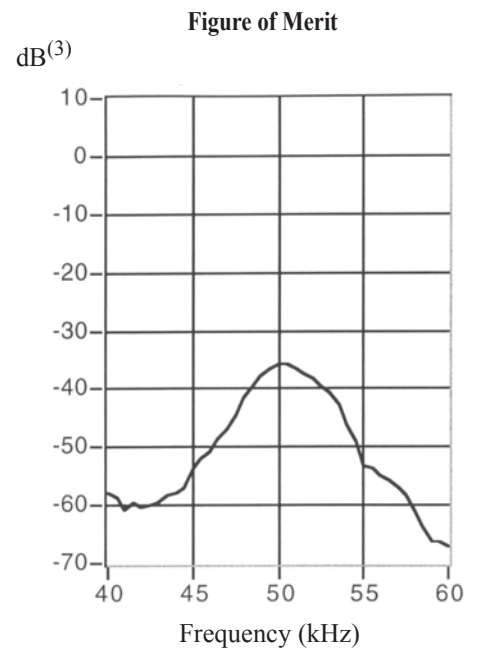
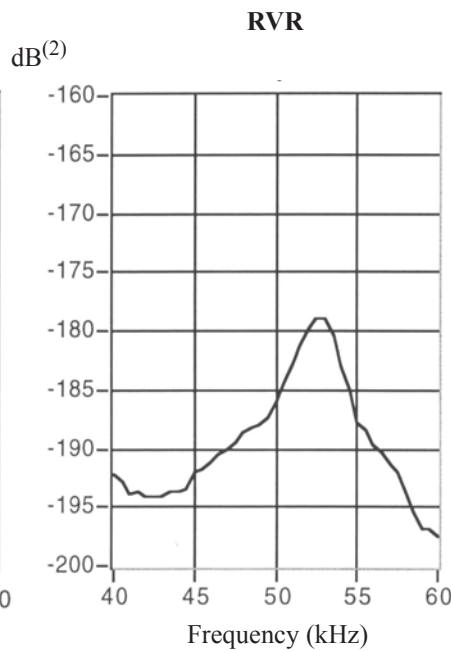
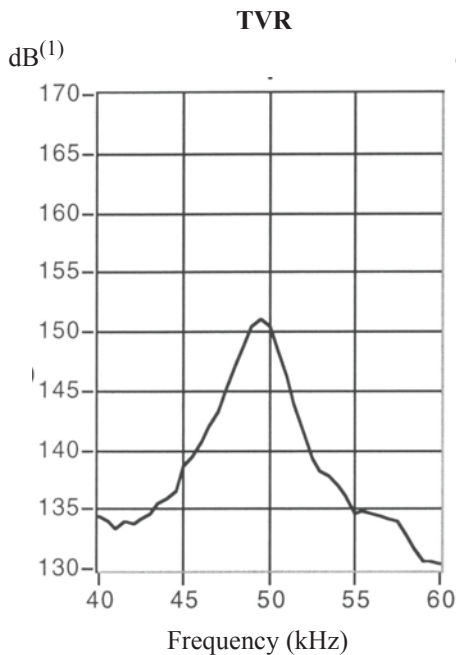
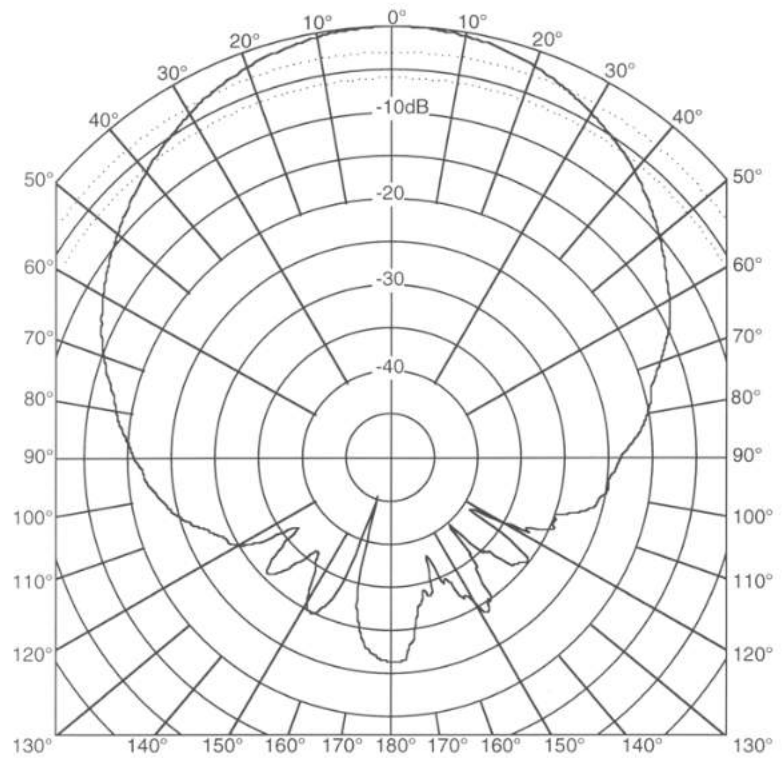
-3 dB: 45°
 -6 dB: 69°
 -10 dB: 94°

Directivity Index: 13.6
 Frequency Tolerance: ±2 kHz
 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 (50 kHz)

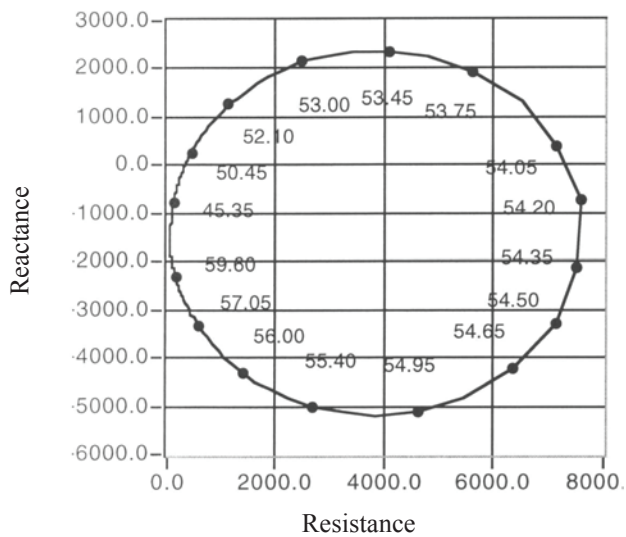
44mm (1.75")

Cable Type: C2

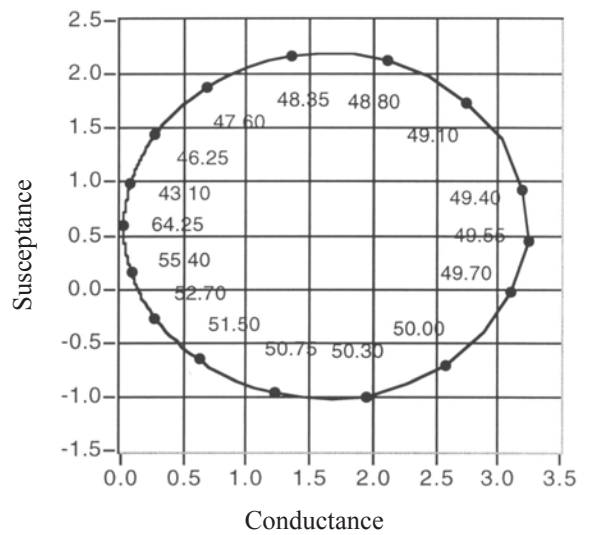
Cable Length: 7.6m (25.0')

Impedance Data		
	Balanced	Unbalanced
Parallel: Rp.	300 ohms-20%,+40%	300 ohms-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%

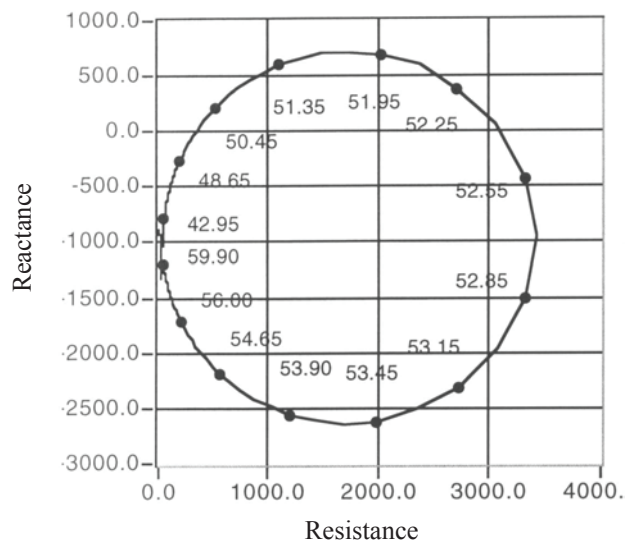
Unbalanced Impedance



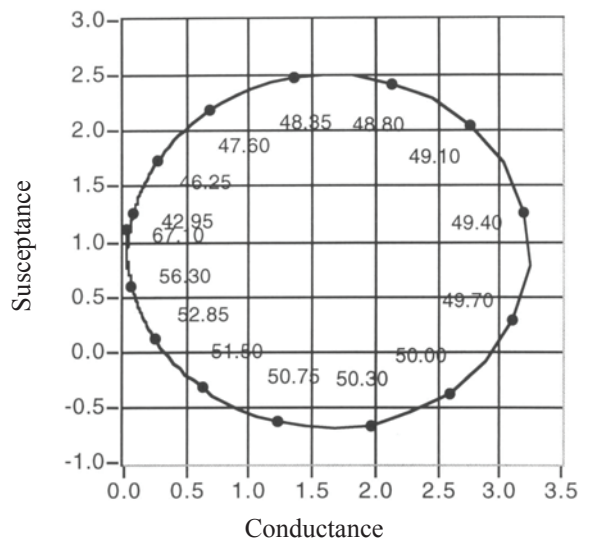
Unbalanced Admittance



Balanced Impedance



Balanced Admittance



50/200 kHz – A (200 kHz)

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

Beamwidth:

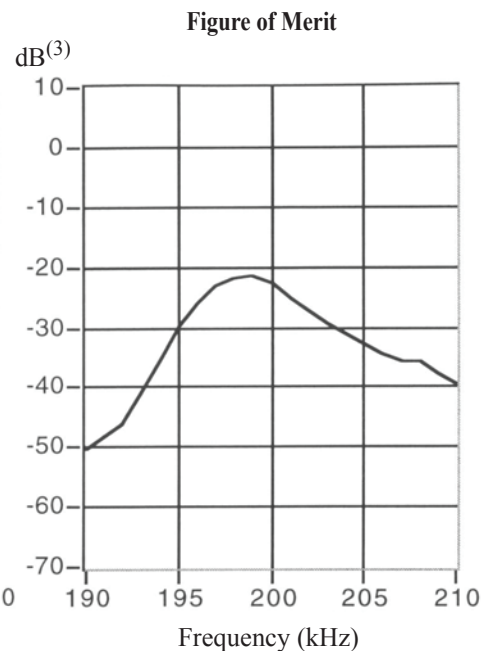
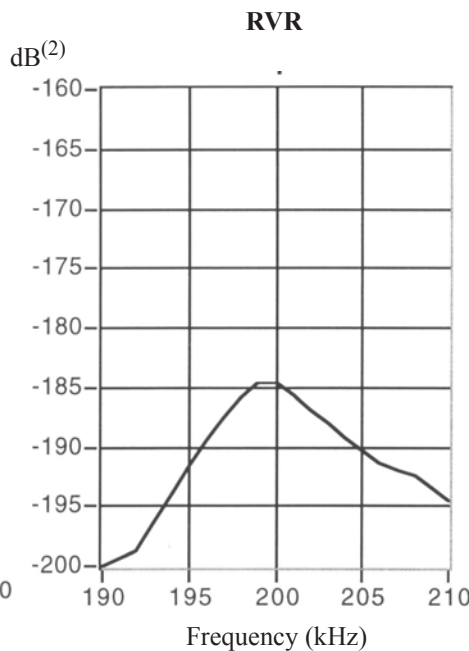
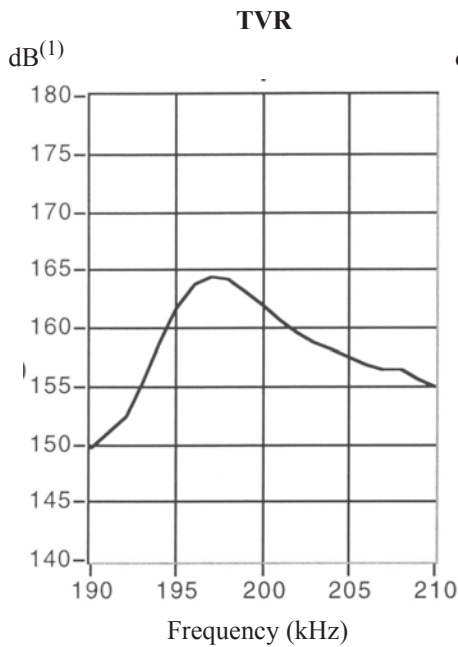
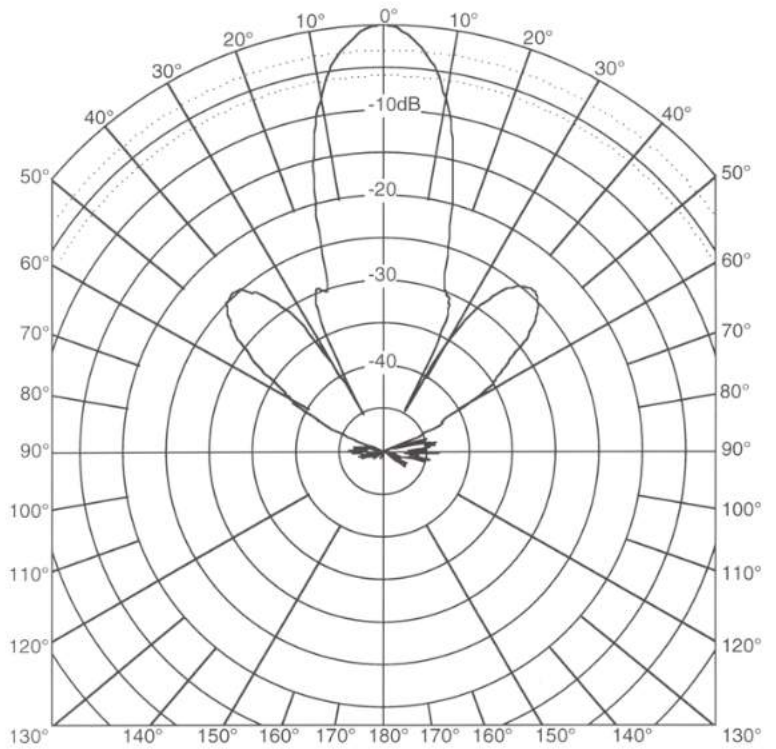
-3dB: 11°
 -6dB: 16°
 -10dB: 21°

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)

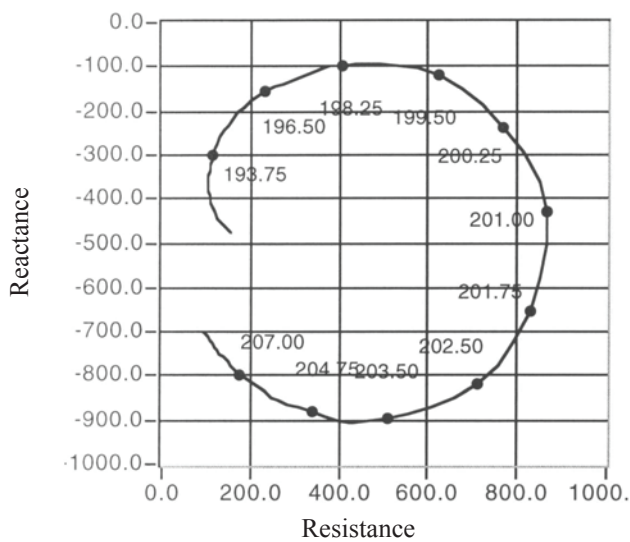
44mm (1.75") PZT

Cable Type: C172

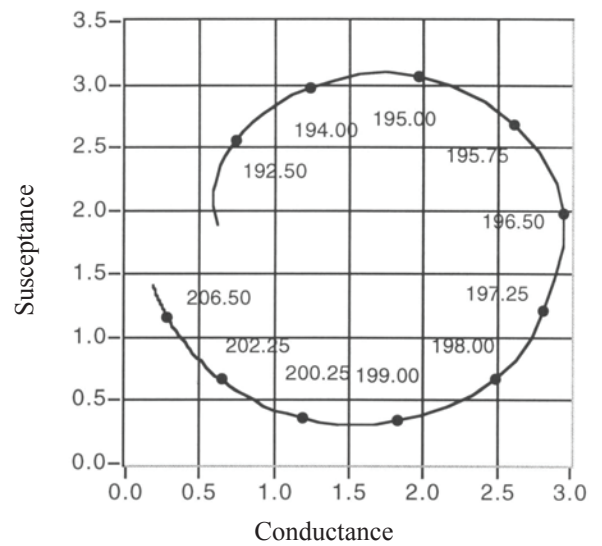
Cable Length: 7.6m (25.0')

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

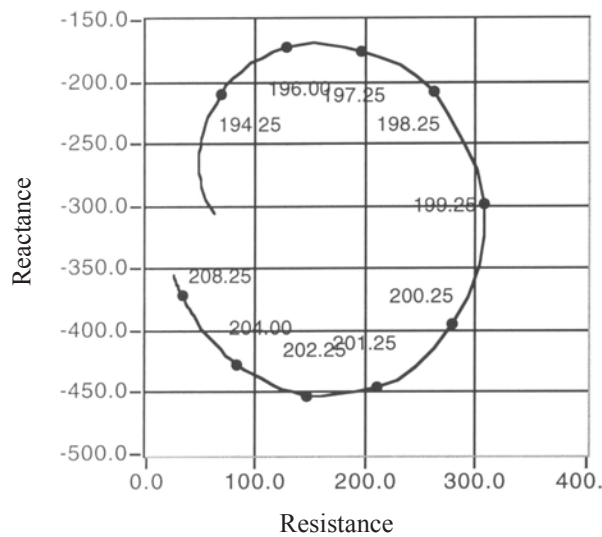
Unbalanced Impedance



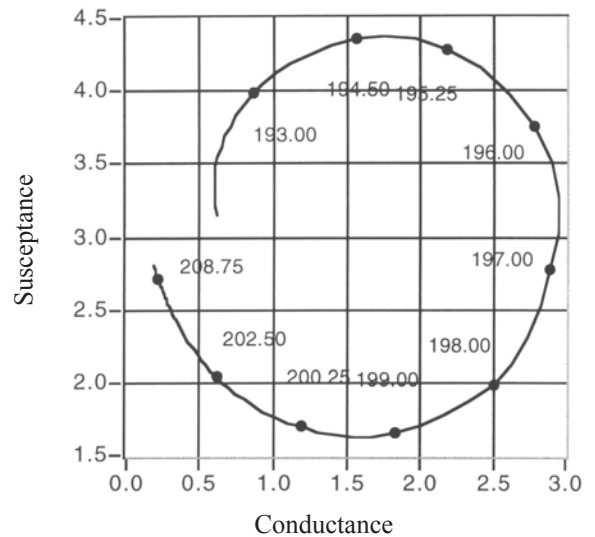
Unbalanced Admittance



Balanced Impedance



Balanced Admittance



50/200 kHz – A (50 kHz)

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

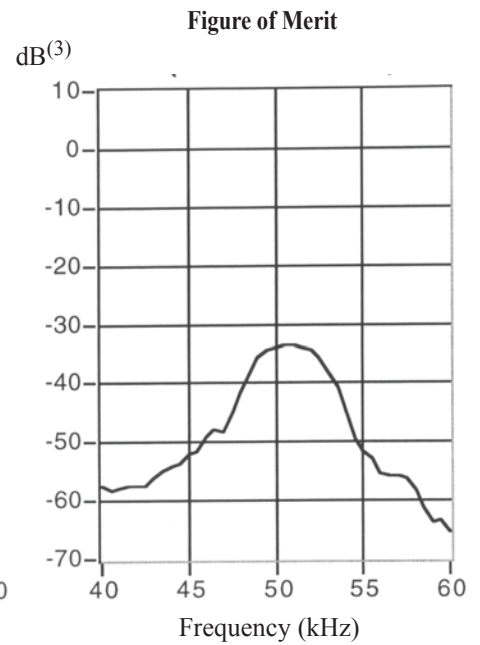
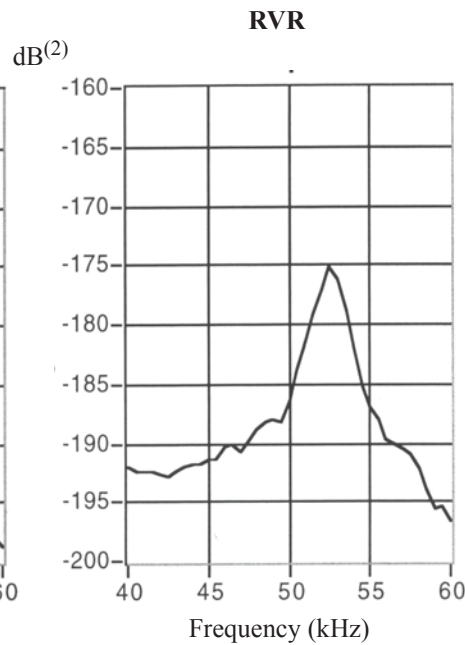
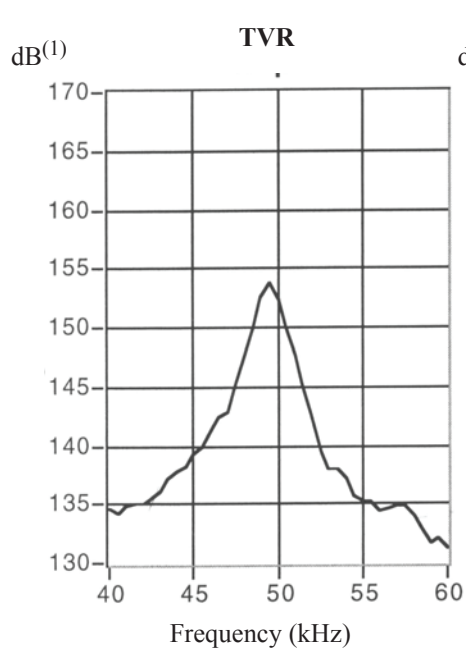
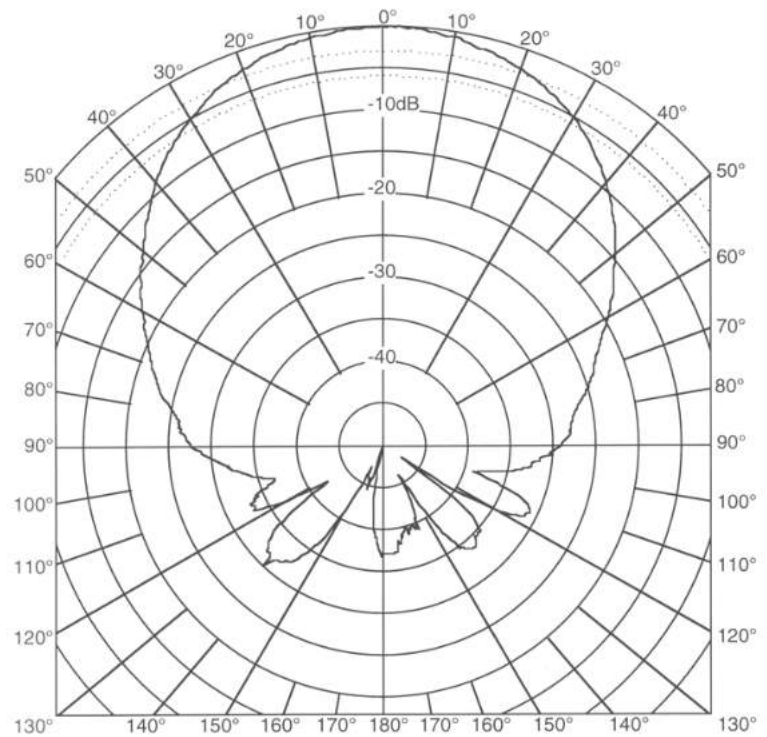
Beamwidth:
 -3 dB: 45°
 -6 dB: 64°
 -10 dB: 85°

Directivity Index: 13.6
 Frequency Tolerance: ±2kHz
 Peak TVR⁽¹⁾, nominal: 154dB
 Peak TVR⁽¹⁾, minimum: 152 dB
 Q (transmit): 28
 Peak Source Level⁽⁴⁾: 206 dB
 Peak RVR⁽²⁾, nominal: -175 dB
 Peak Figure of Merit⁽³⁾: -33 dB

Notes:

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- (2) dB re 1 volt per μPa
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- (4) Nominal peak TVR, rated power, and no cavitation

Transmit Radiation Pattern



Technical Data Catalog

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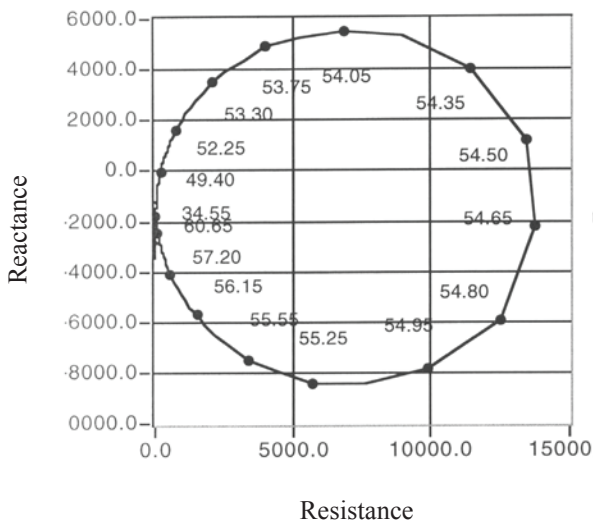
44mm (1.75") PZT

Cable Type: C144

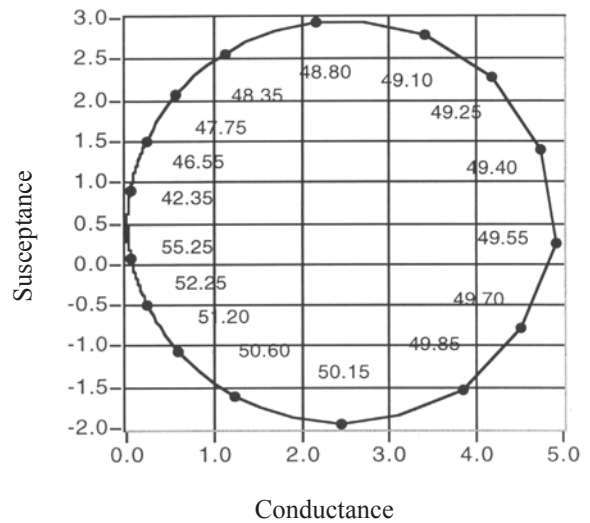
Cable Length: 10.1 m (33.0')

Impedance Data		
	Balanced	Unbalanced
Parallel: Rp.	200 ohms-20%,+40%	200 ohms-20%,+40%
Parallel: Cp. (nominal)	720pF	2210pF
Series [R – jX] (nominal)	200 – j0 ohms	200 – j12 ohms
1 kHz Capacitance	2220pF±20%	3400pF±20%

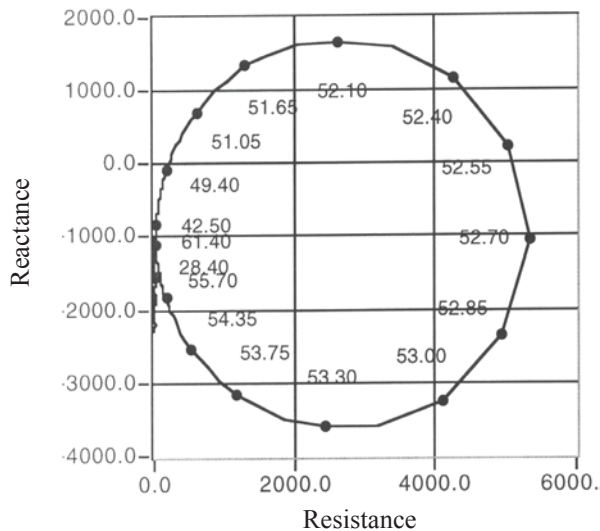
Unbalanced Impedance



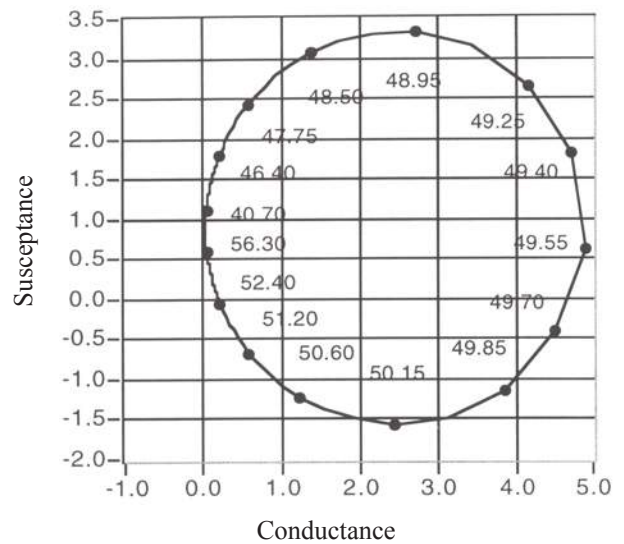
Unbalanced Admittance



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
 Urethane Window

Beamwidth:

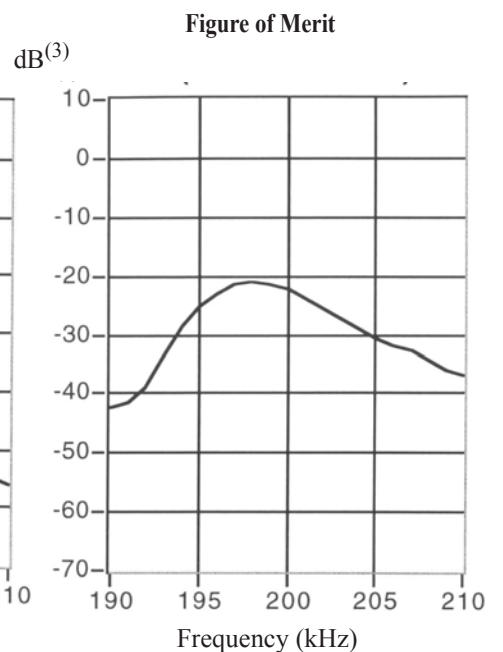
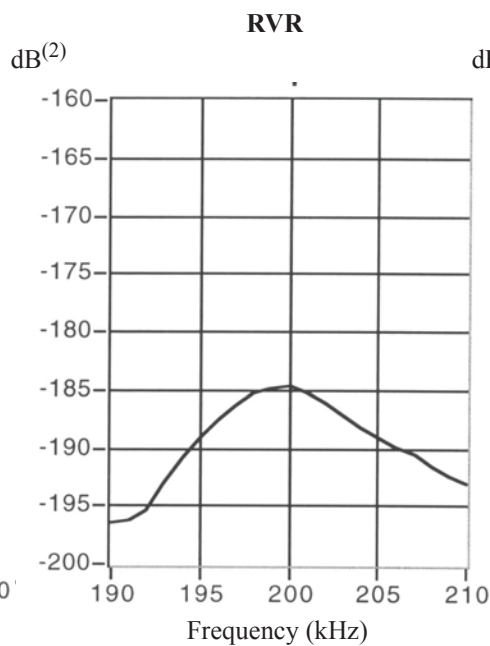
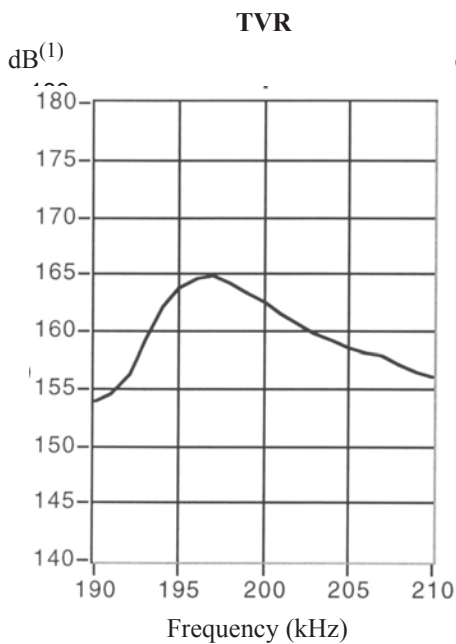
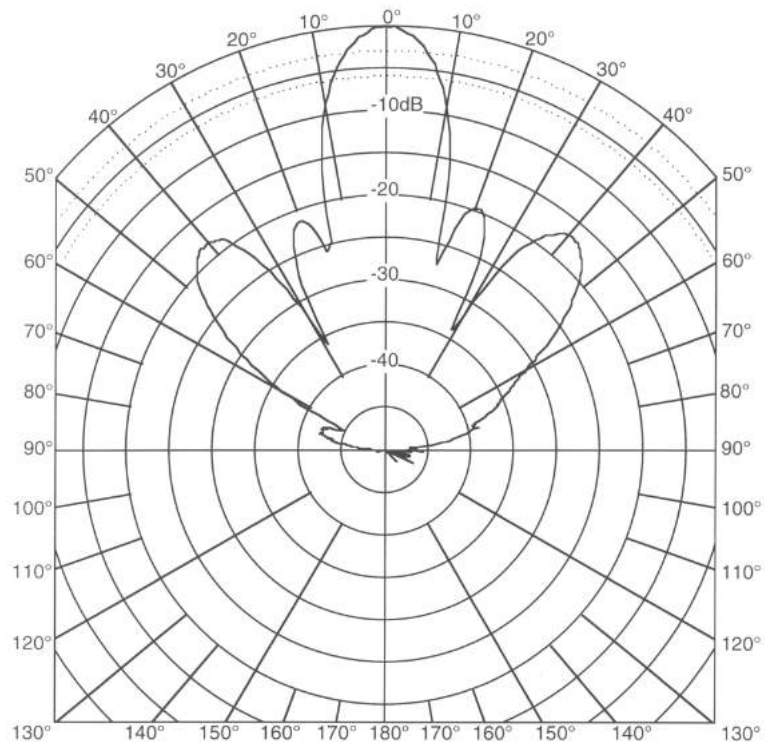
-3 dB: 12°
 -6 dB: 17°
 -10 dB: 22°

Directivity Index: 25.6
 Frequency Tolerance: ±4kHz
 Peak TVR⁽¹⁾, nominal: 164dB
 Peak TVR⁽¹⁾, minimum: 162dB
 Q (transmit): 30
 Peak Source Level⁽⁴⁾: 218dB
 Peak RVR⁽²⁾, nominal: -185 dB
 Peak Figure of Merit⁽³⁾: -21 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



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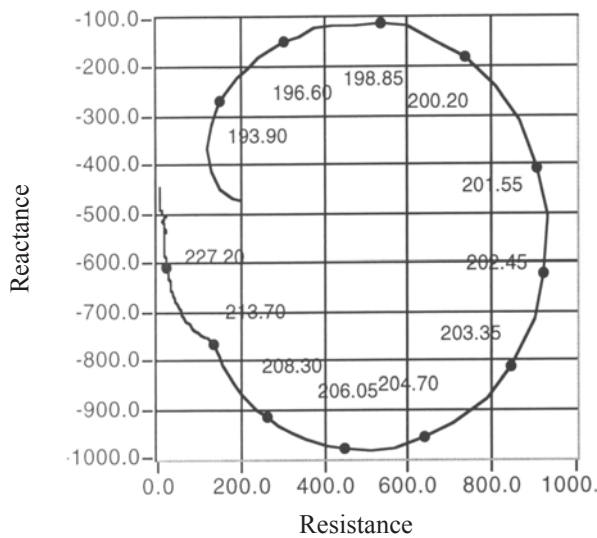
44mm (1.75") PZT

Cable Type: C144

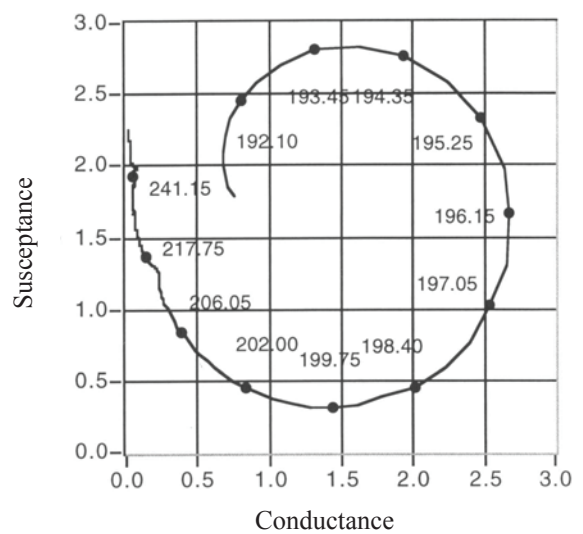
Cable Length: 10.1 m (33.0')

Impedance Data		
	Balanced	Unbalanced
Parallel: Rp.	375 ohms-20%,+40%	375 ohms-20%,+40%
Parallel: Cp. (nominal)	1200pF	2400pF
Series [R – jX] (nominal)	315 – j30 ohms	240 – j50 ohms
1 kHz Capacitance	2210pF±20%	3390pF±20%

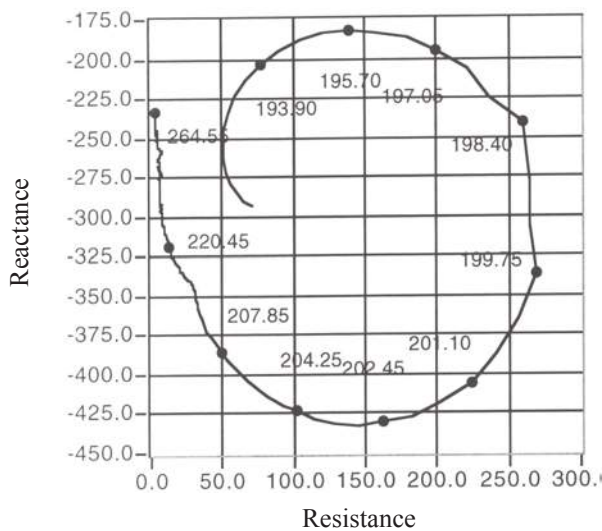
Unbalanced Impedance



Unbalanced Admittance



Balanced Impedance



Balanced Admittance

