

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

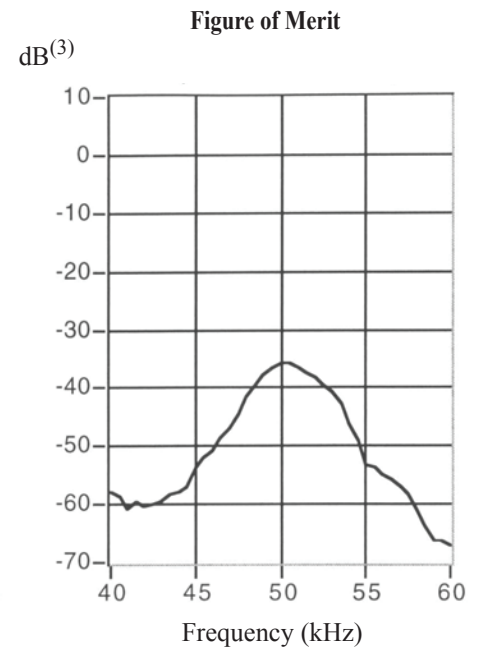
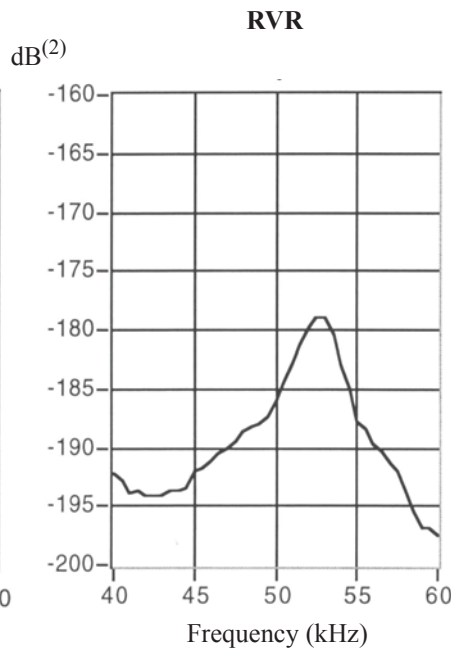
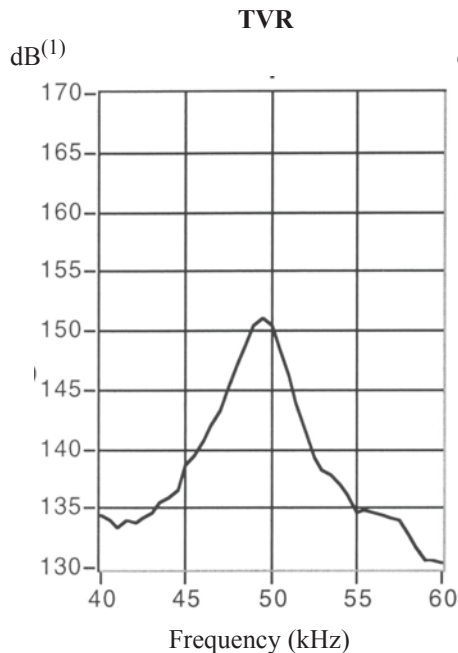
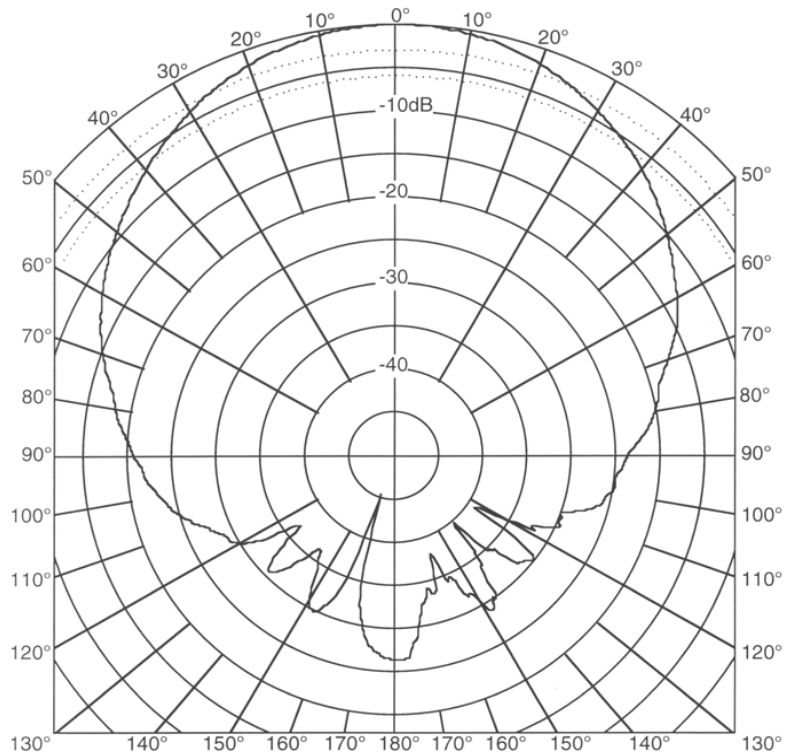
Beamwidth:
 -3dB: 45°
 -6dB: 69°
 -10dB: 94°

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)

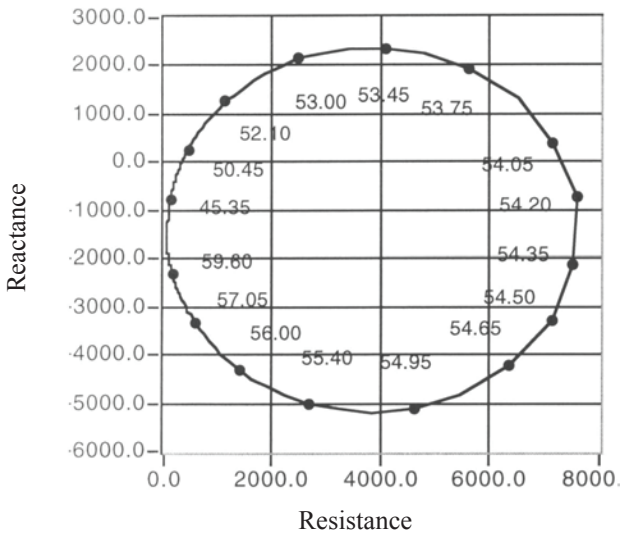
44mm (1.75")

Cable Type: C2

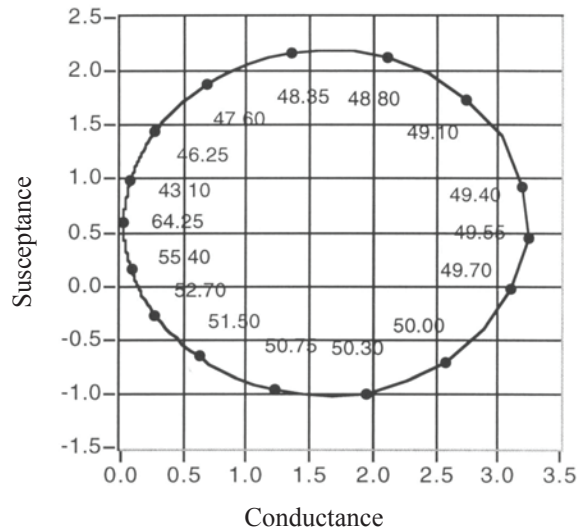
Cable Length: 7.6m (25.0')

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%

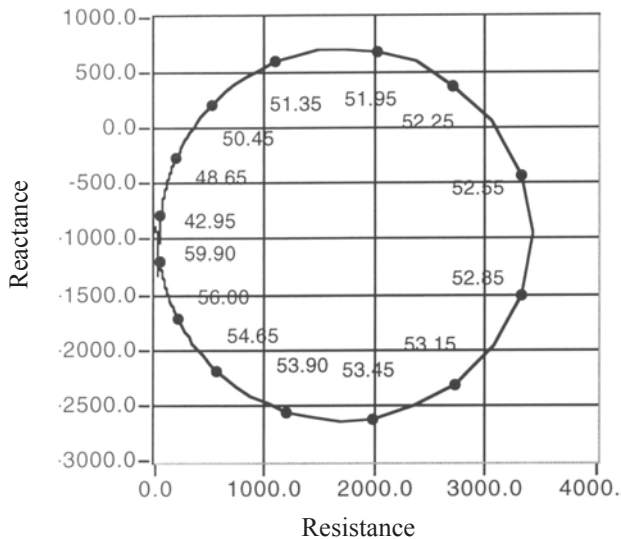
Unbalanced Impedance



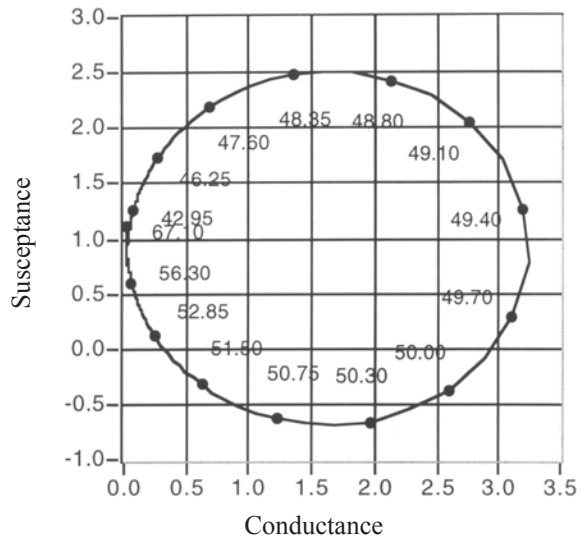
Unbalanced Admittance



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

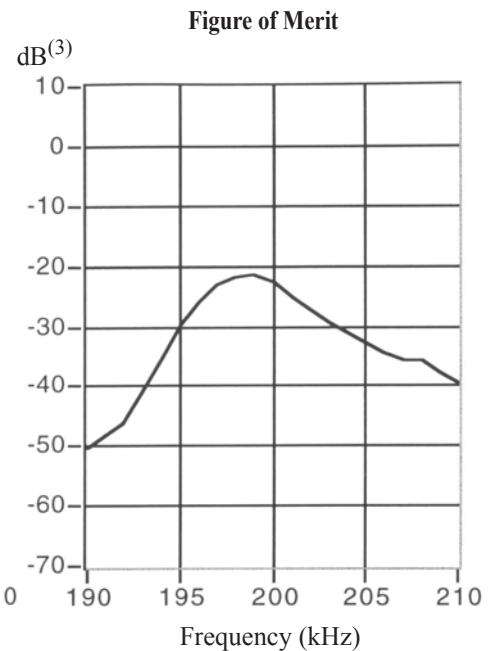
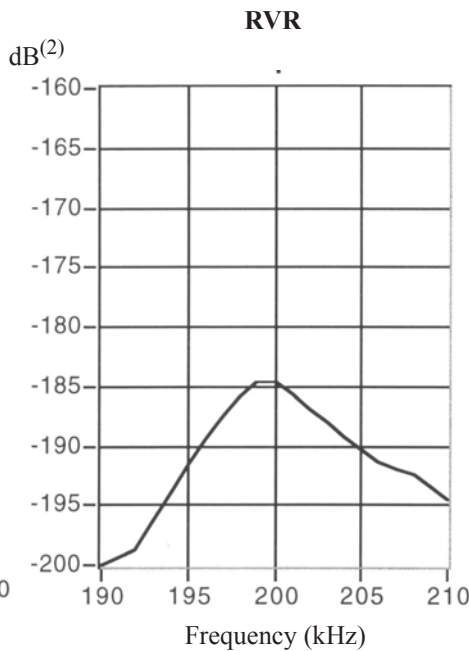
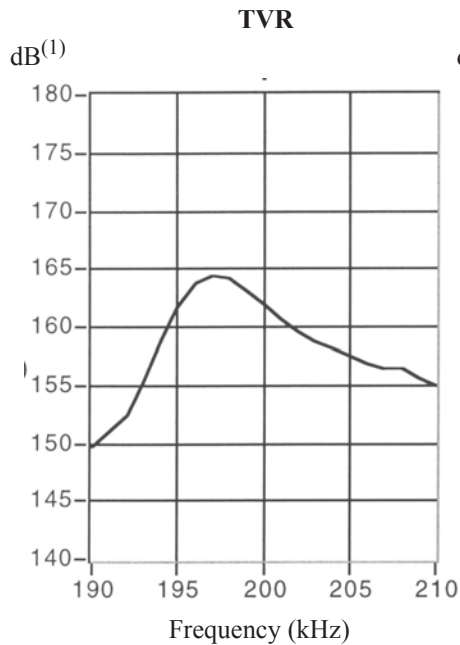
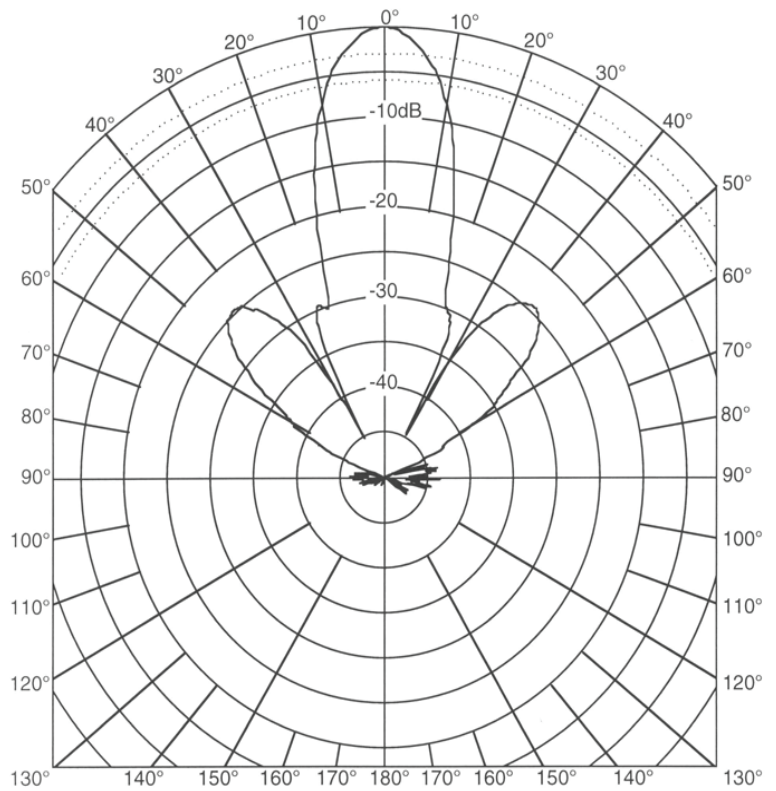
Beamwidth:
 -3dB: 11°
 -6dB: 16°
 -10dB: 21°

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)

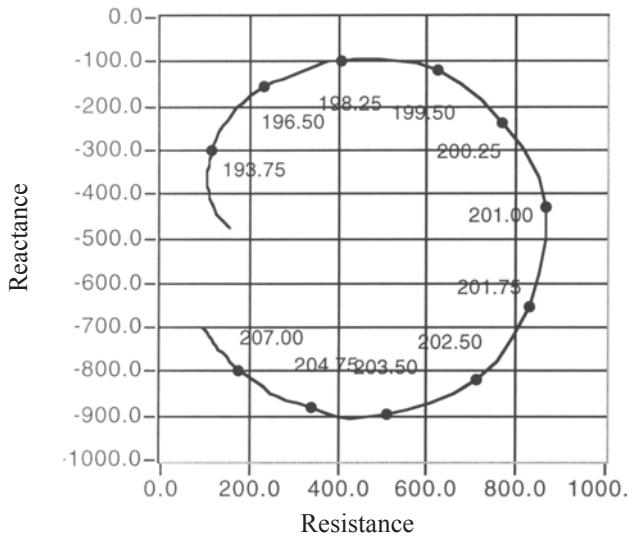
44mm (1.75") PZT

Cable Type: C172

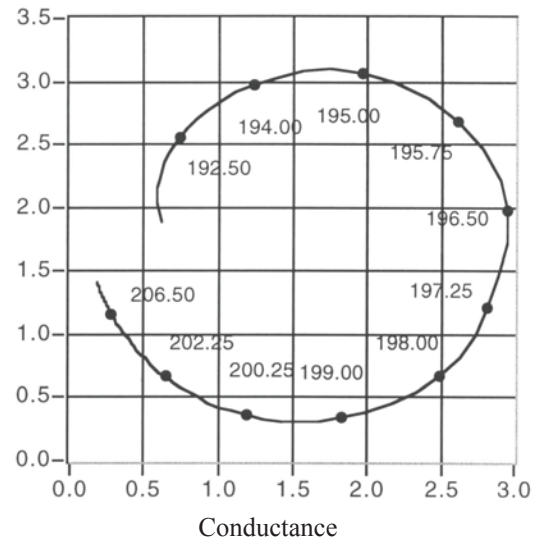
Cable Length: 7.6m (25.0')

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%

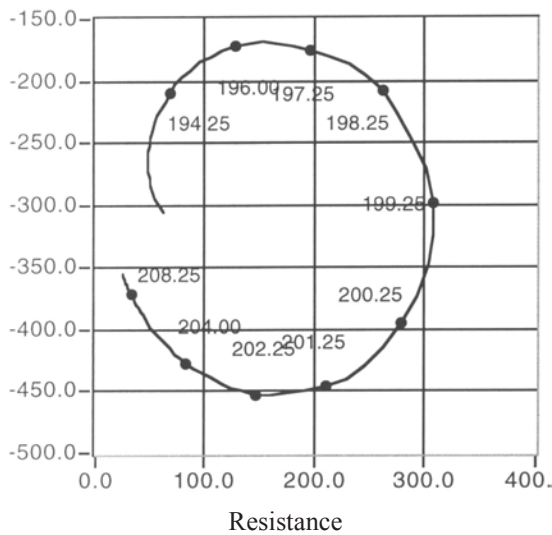
Unbalanced Impedance



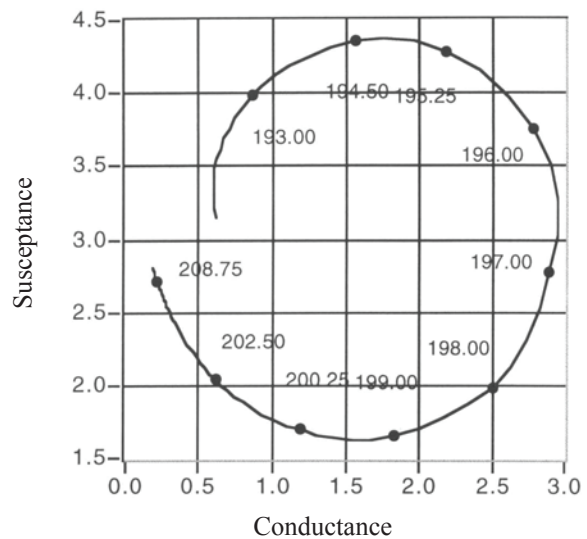
Unbalanced Admittance



Balanced Impedance



Balanced Admittance



50/200 kHz – A (50 kHz)

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

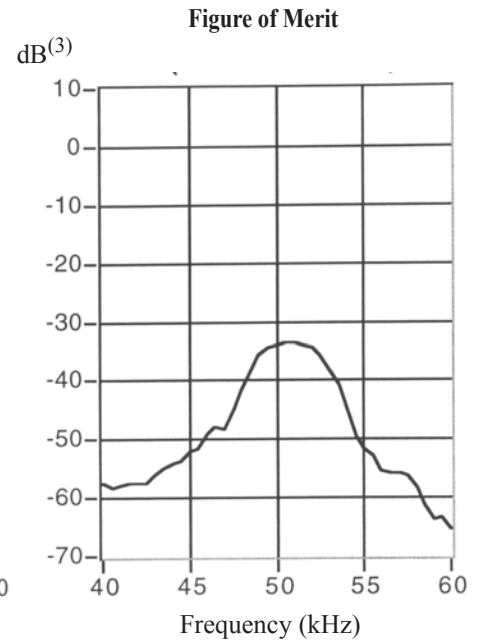
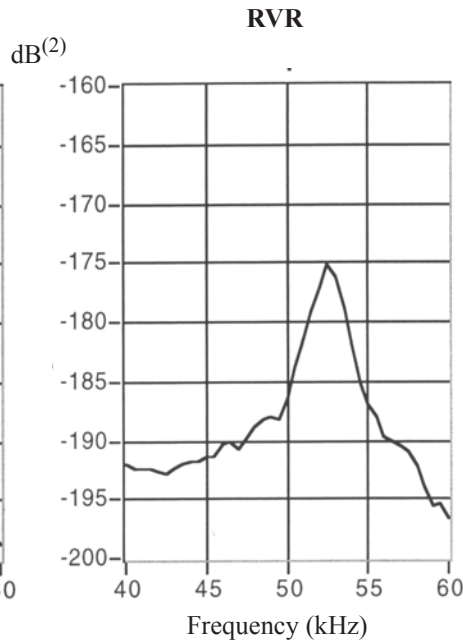
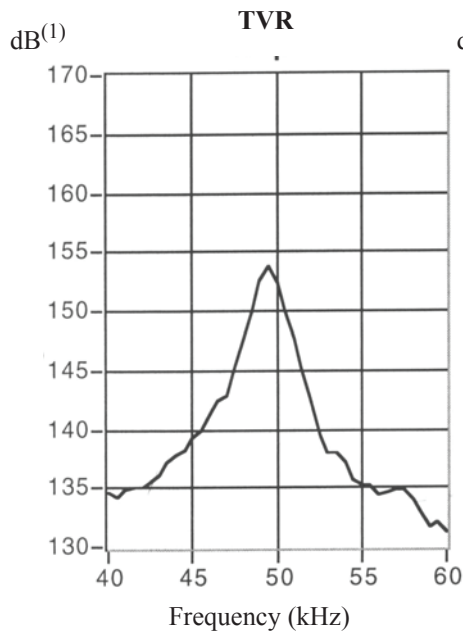
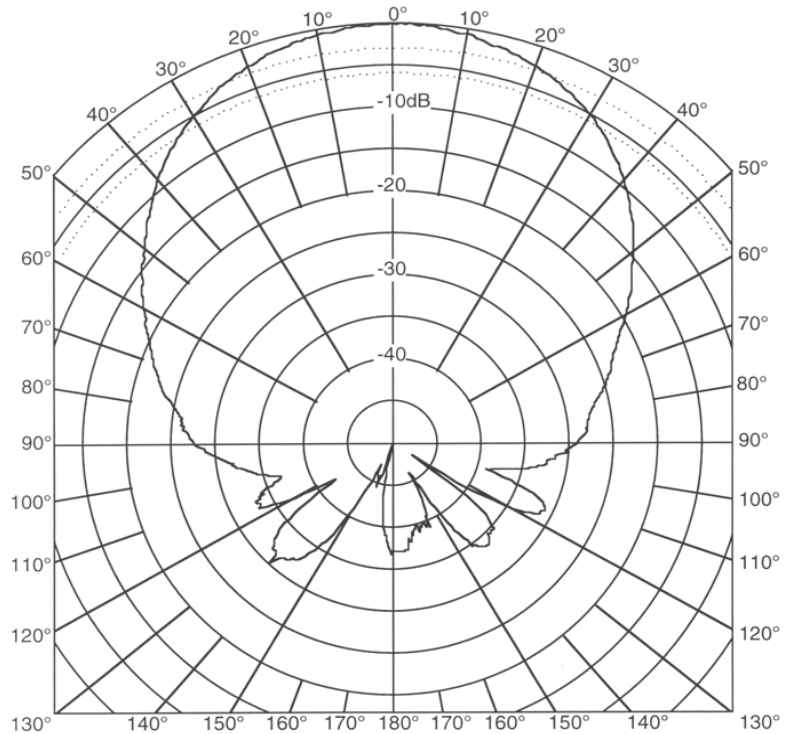
Beamwidth:
 -3 dB: 45°
 -6 dB: 64°
 -10 dB: 85°

Directivity Index: 13.6
 Frequency Tolerance: ±2kHz
 Peak TVR⁽¹⁾, nominal: 154 dB
 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:

- (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)

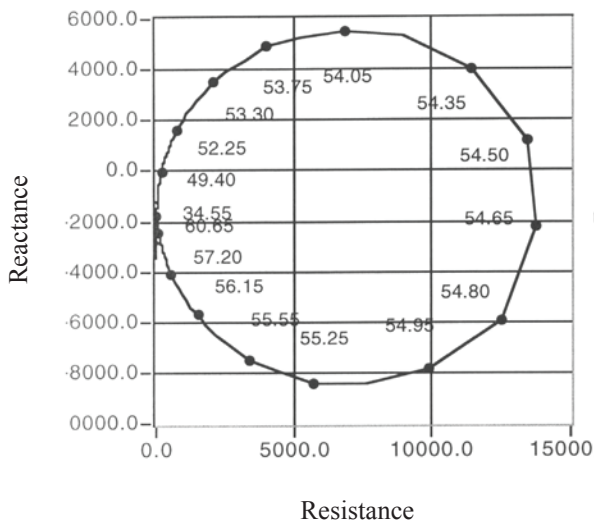
44mm (1.75") PZT

Cable Type: C144

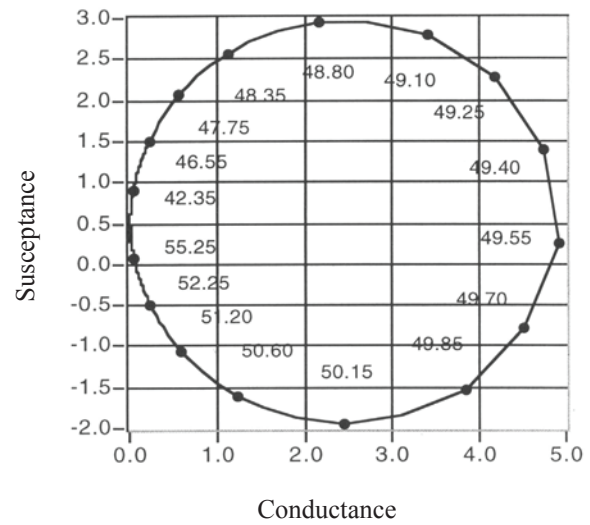
Cable Length: 10.1 m (33.0')

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%

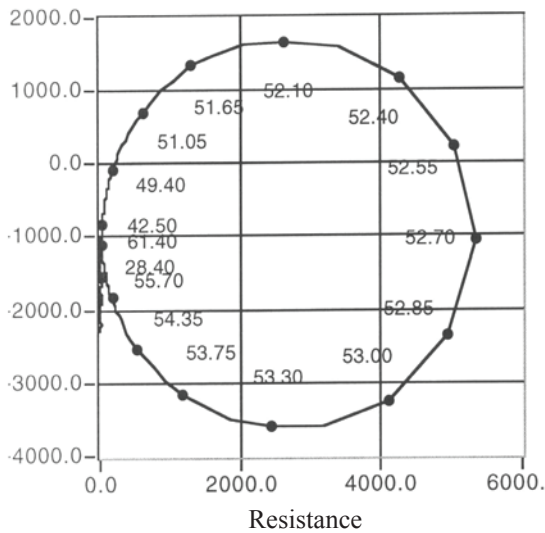
Unbalanced Impedance



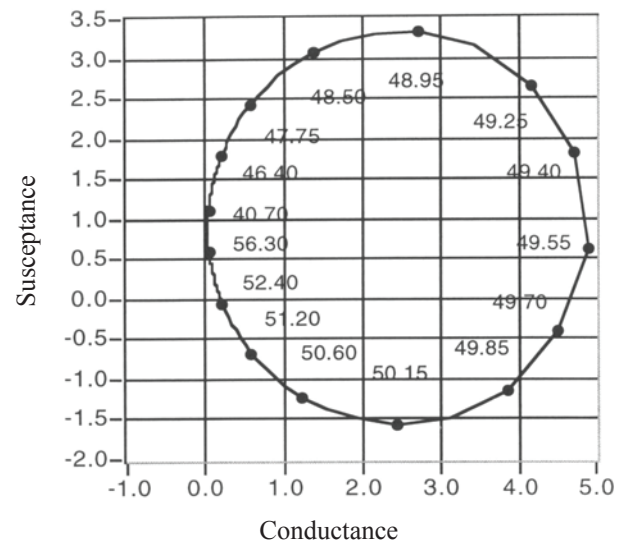
Unbalanced Admittance



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:

-3dB: 12°

-6dB: 17°

-10dB: 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: -185dB

Peak Figure of Merit⁽³⁾: -21 dB

Notes:

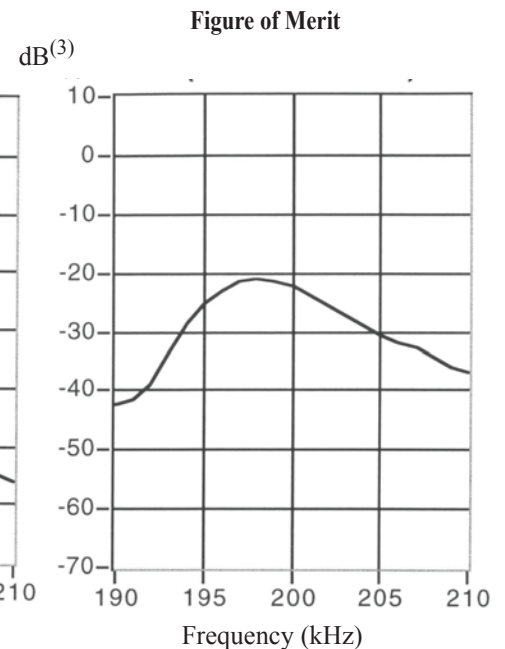
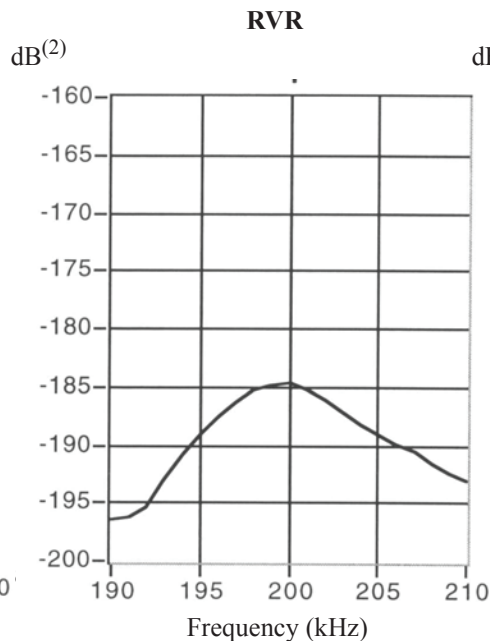
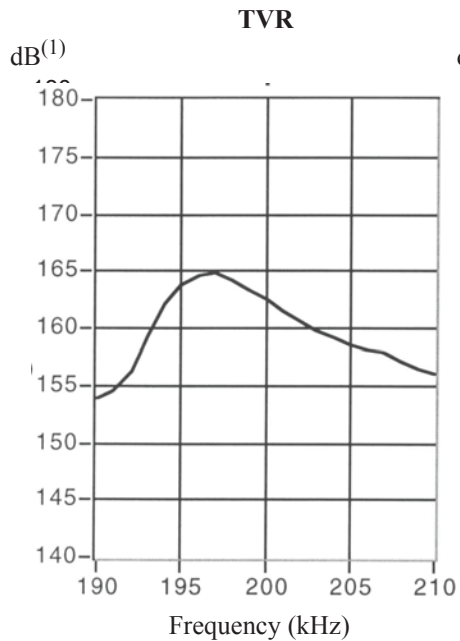
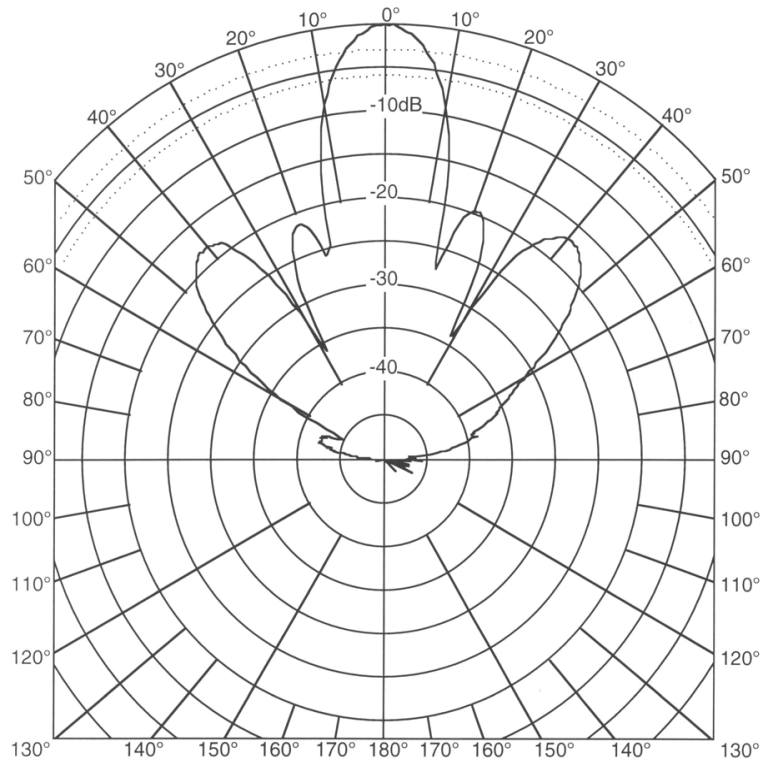
(1) dB re 1 μPa per volt at 1 meter

(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



Technical Data Catalog

50/200 kHz – A (200 kHz)

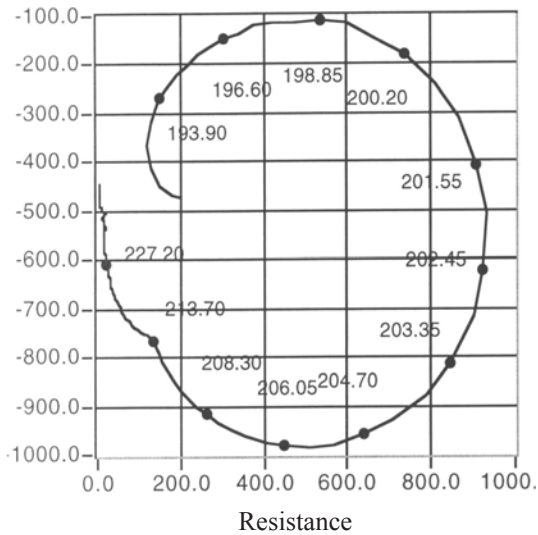
44mm (1.75") PZT

Cable Type: C144

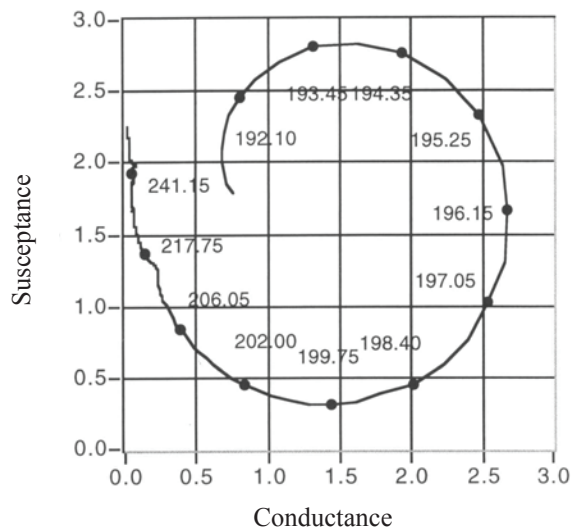
Cable Length: 10.1 m (33.0')

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%

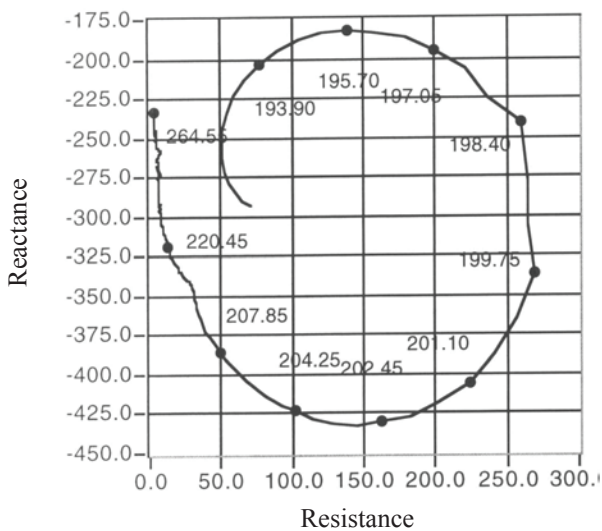
Unbalanced Impedance



Unbalanced Admittance



Balanced Impedance



Balanced Admittance

