235 kHz – A

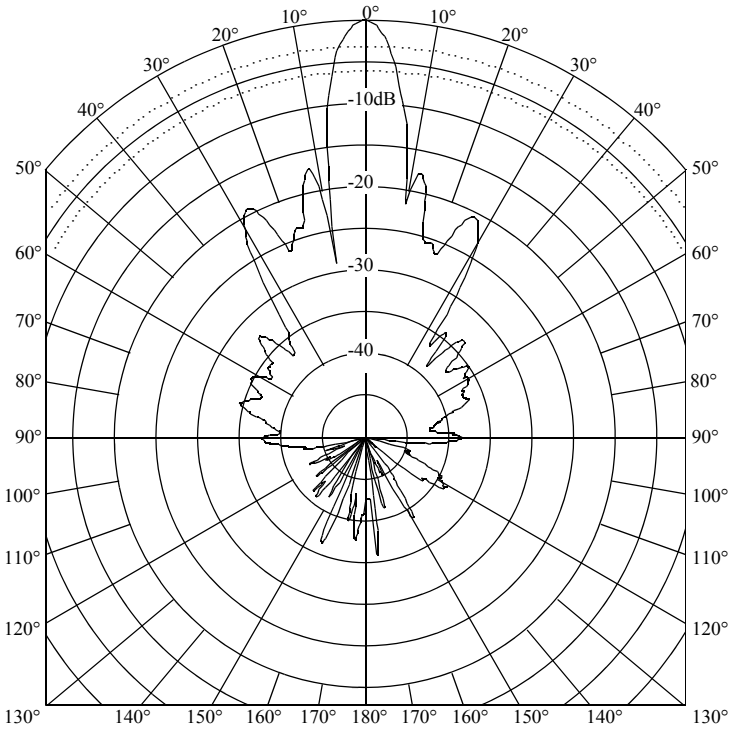
Power rating: 600 Wrms @ 2% duty cycle
51 mm (2.0") PZT
Active Area: 20 cm²
Layered Plastic Epoxy Window

Beamwidth:
-3dB: 7°
-6dB: 10°
-10dB: 13°

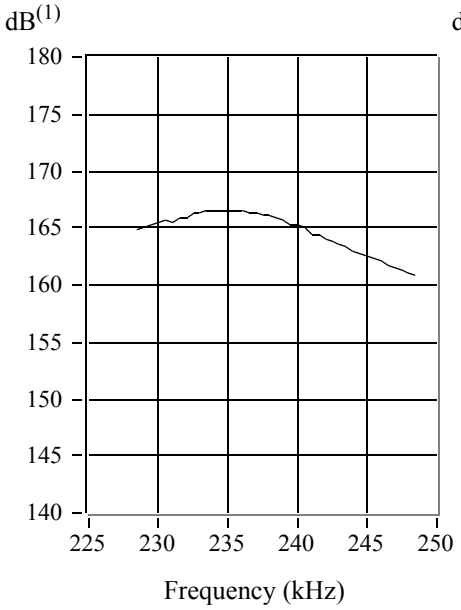
Directivity Index:	28.2
Frequency Tolerance:	±5 kHz
Peak TVR(1), nominal:	166 dB
Peak TVR(1), minimum:	164 dB
Q (transmit):	15
Peak Source Level(4):	221 dB
Peak RVR(2), nominal:	-185 dB
Peak Figure of Merit(3):	-19 dB

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



TVR



RVR

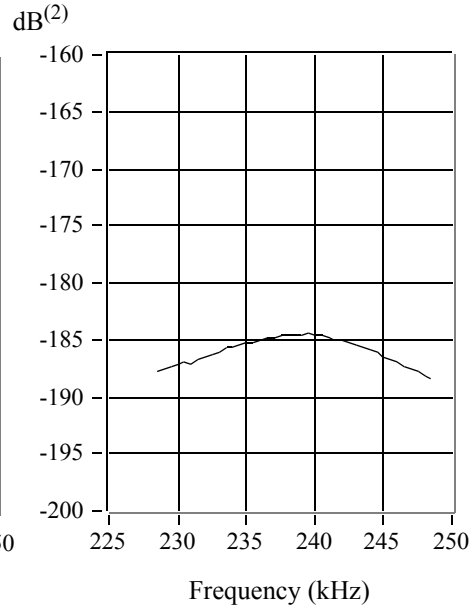
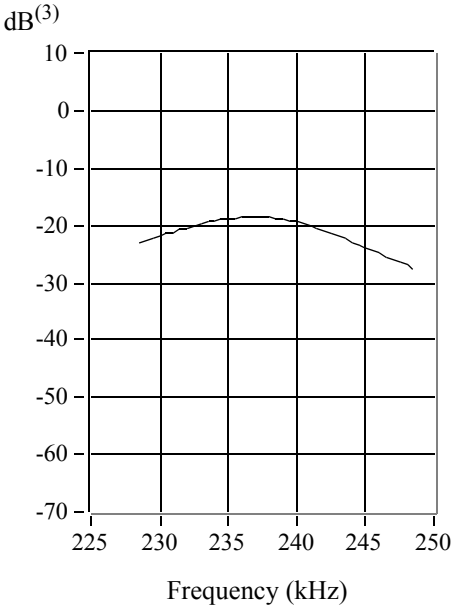


Figure of Merit



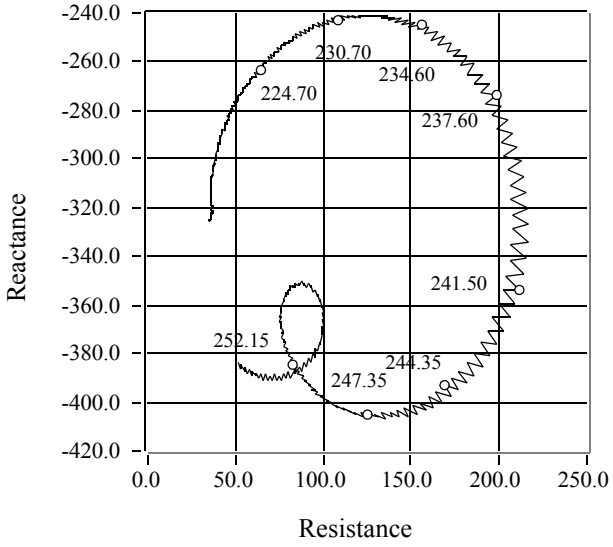
235 kHz – A

51 mm (2.0") PZT

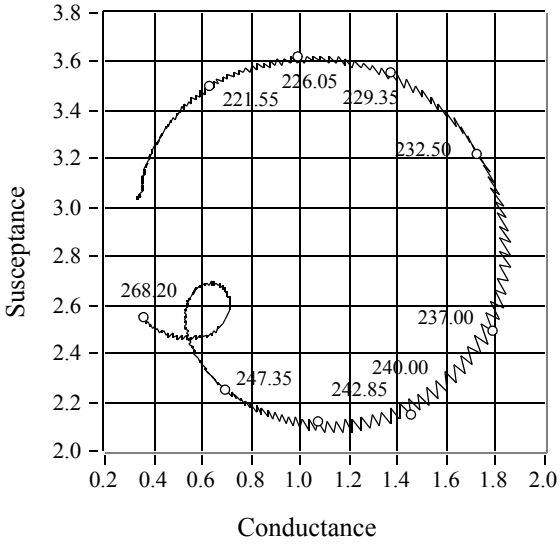
Cable Type: C2
Cable Length: 7.6 m (25.0')

Impedance Data	
	Unbalanced
Parallel: Rp.	540 ohms -20%, +40%
Parallel: Cp. (nominal)	1910 pF
Series [R – jX] (nominal)	170 – j250 ohms
1 kHz Capacitance	3140 pF ±20%

Unbalanced Impedance



Unbalanced Admittance



235 kHz – A

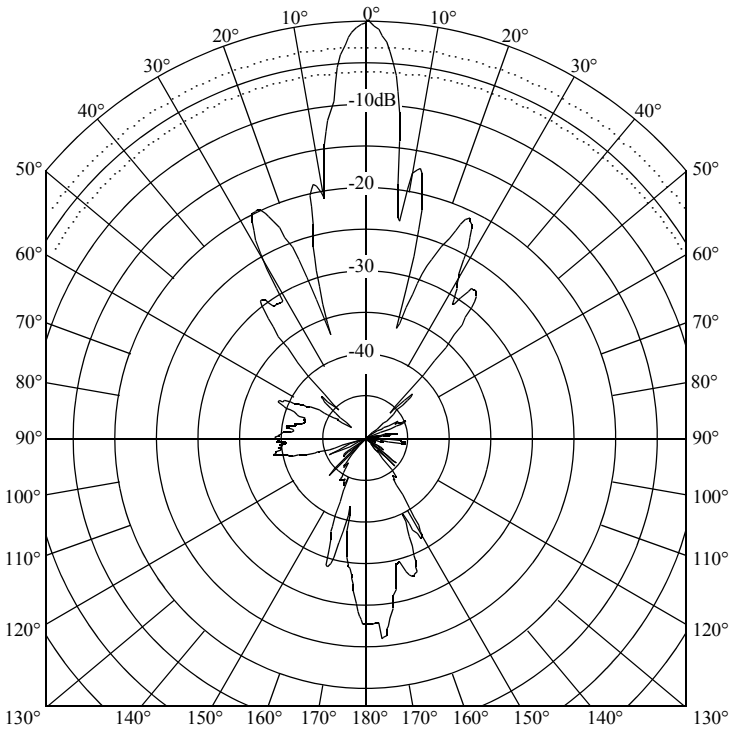
Power rating: 600 Wrms @ 2% duty cycle
51 mm (2.0") PZT
Active Area: 20 cm²
Layered Plastic Urethane Window

Beamwidth:
-3dB: 6°
-6dB: 9°
-10dB: 12°

Directivity Index:	28.2
Frequency Tolerance:	±5 kHz
Peak TVR(1), nominal:	171 dB
Peak TVR(1), minimum:	168 dB
Q (transmit):	22
Peak Source Level(4):	221 dB
Peak RVR(2), nominal:	-184 dB
Peak Figure of Merit(3):	-15 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



TVR

RVR

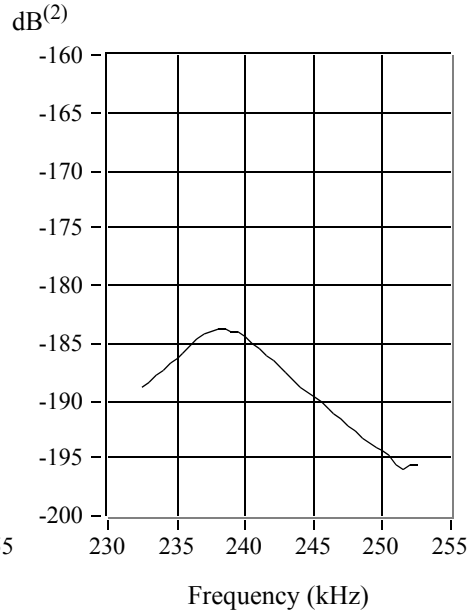
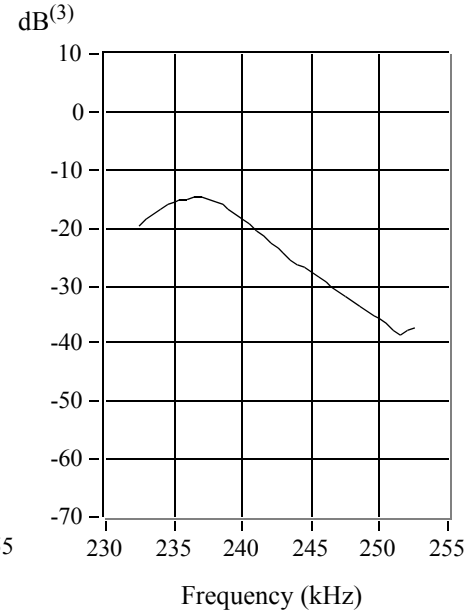


Figure of Merit



17-278-225 rev. 02

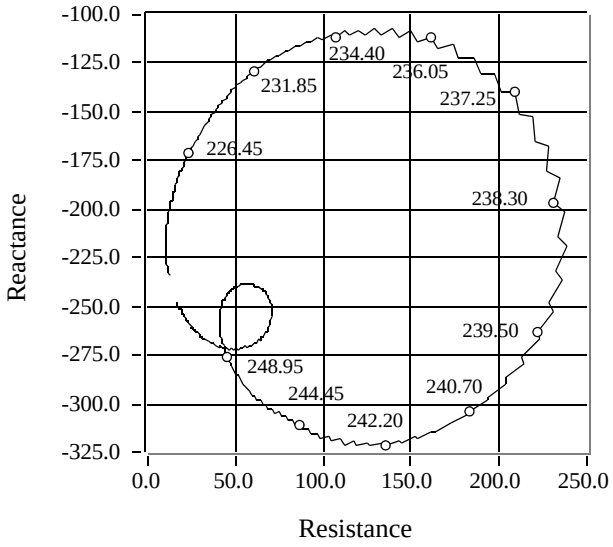
235 kHz – A

51mm (2.0") PZT

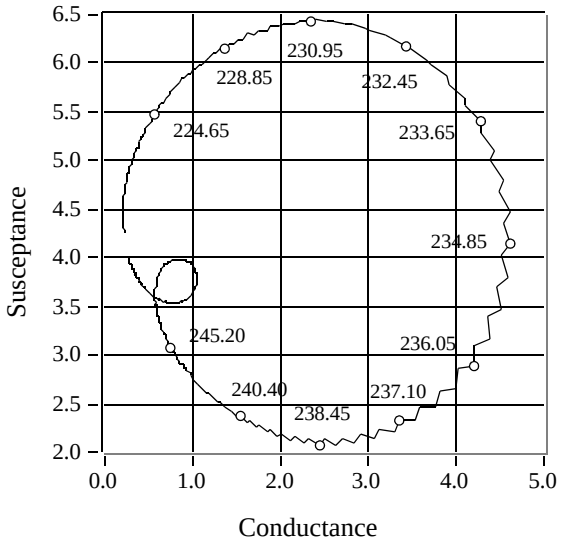
Cable Type: C2
Cable Length: 7.6m (25.0')

Impedance Data		
	Balanced	*Unbalanced*
Parallel: Rp.	220ohms-20%,+40%	220ohms-20%,+40%
Parallel: Cp. (nominal)	1400pF	3150pF
Series [R – jX] (nominal)	180 – j80 ohms	110 – j110 ohms
1 kHz Capacitance	1780pF±20%	3100pF±20%

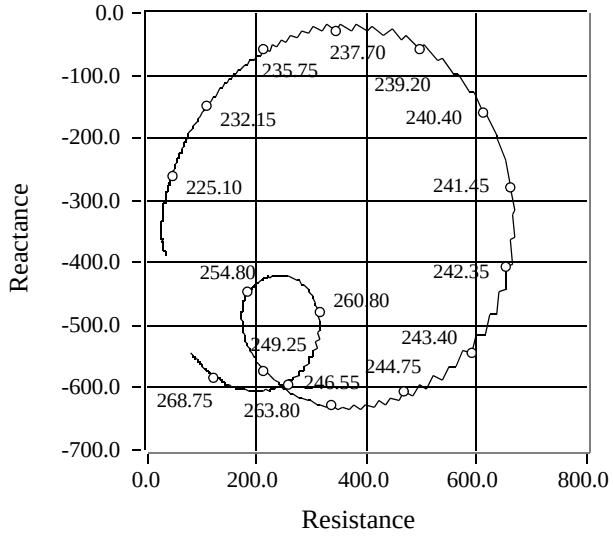
Unbalanced Impedance



Unbalanced Admittance



Balanced Impedance



Balanced Admittance