



3800 Monroe Ave
Pittsford, New York 14534 USA
Tel: +1 585 264 0480
www.imaginant.com

TRANSDUCER DATA SHEET

DESCRIPTION

Immersion Transducer

Model Number: TB-0050

Serial Number: 00844

TRANSDUCER SPECIFICATIONS

Nominal Frequency: 50 MHz

Element Diameter: 3.0 mm

Nominal Delay Line Length: 4.25 us

Focal length: 12.0 mm

Lens Diameter: 5.8 mm

TEST EQUIPMENT AND CONDITIONS

Pulser/Receiver: JSR Ultrasonics PureView-H

Settings: 0 dB Gain; 50 ohm Damping

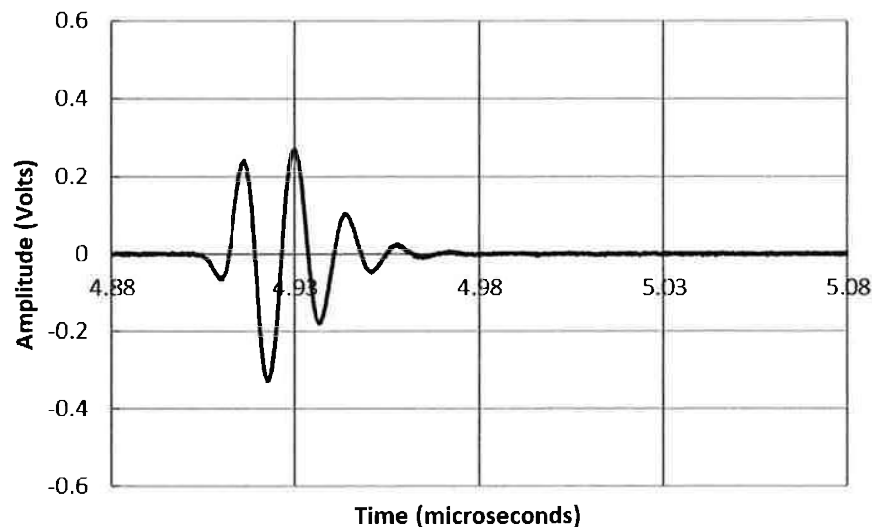
Cable: 20 cm Length, 25 Ohm Impedance

Target: Stainless Steel Sphere; 0.938 in Diameter

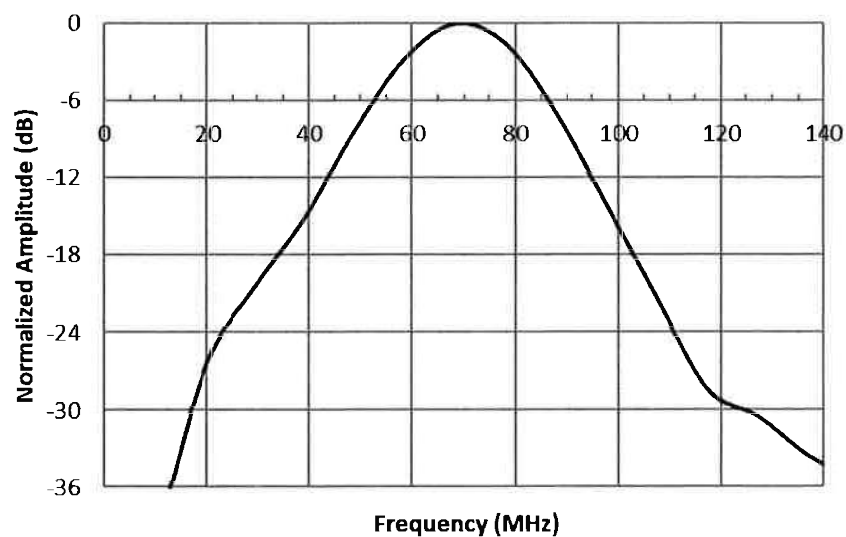
Approx. Round Trip Water Path Length: 0.88 mm

Test Date: March 1, 2024

WAVEFORM (Signal Reflected from Target)



SPECTRUM



Center Frequency: 67.0 MHz
Peak Frequency: 68.4 MHz
-6dB Bandwidth: 41.8%



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TRANSDUCER DATA SHEET

DESCRIPTION

Immersion Transducer

Model Number: 75MHz

Serial Number: 00935

TRANSDUCER SPECIFICATIONS

Nominal Frequency: 75 MHz

Element Diameter: 4.0 mm

Nominal Delay Line Length: 4.25 us

Focal length: 20.0 mm

Lens Diameter: 5.8 mm

TEST EQUIPMENT AND CONDITIONS

Pulser/Receiver: JSR Ultrasonics PureView-U

Settings: 10 dB Gain; 21 ohm Damping

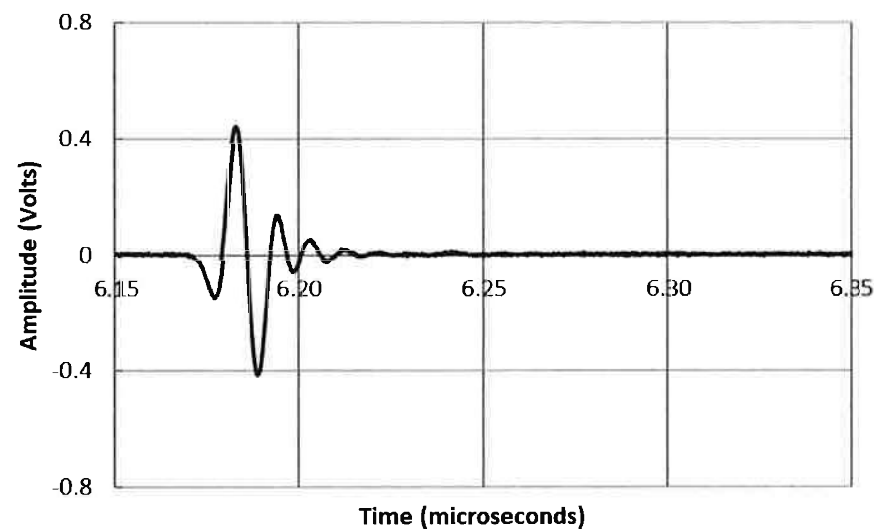
Cable: 20 cm Length, 25 Ohm Impedance

Target: Stainless Steel Sphere; 1.5 in Diameter

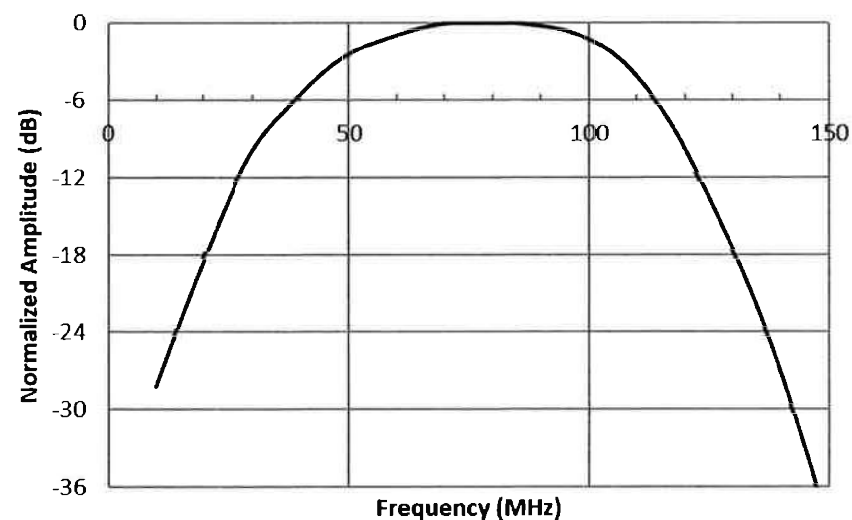
Approx. Round Trip Water Path Length: 2.74 mm

Test Date: October 29, 2024

WAVEFORM (Signal Reflected from Target)



SPECTRUM



Center Frequency: 76.0 MHz
Peak Frequency: 78.1 MHz



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TRANSDUCER DATA SHEET

DESCRIPTION

Immersion Transducer

Model Number: 100MHz

Serial Number: 01055

TRANSDUCER SPECIFICATIONS

Nominal Frequency: 100 MHz

Element Diameter: 3.0 mm

Nominal Delay Line Length: 4.25 us

Focal length: 8.0 mm

Lens Diameter: 5.8 mm

TEST EQUIPMENT AND CONDITIONS

Pulser/Receiver: JSR Ultrasonics PureView-U

Settings: 0 dB Gain; 50 ohm Damping

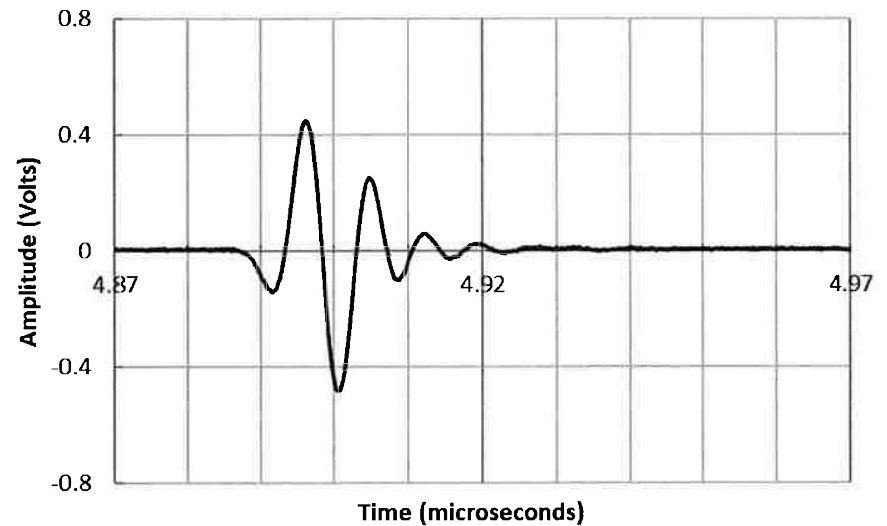
Cable: 20 cm Length, 25 Ohm Impedance

Target: Stainless Steel Sphere; 15.0 mm Diameter

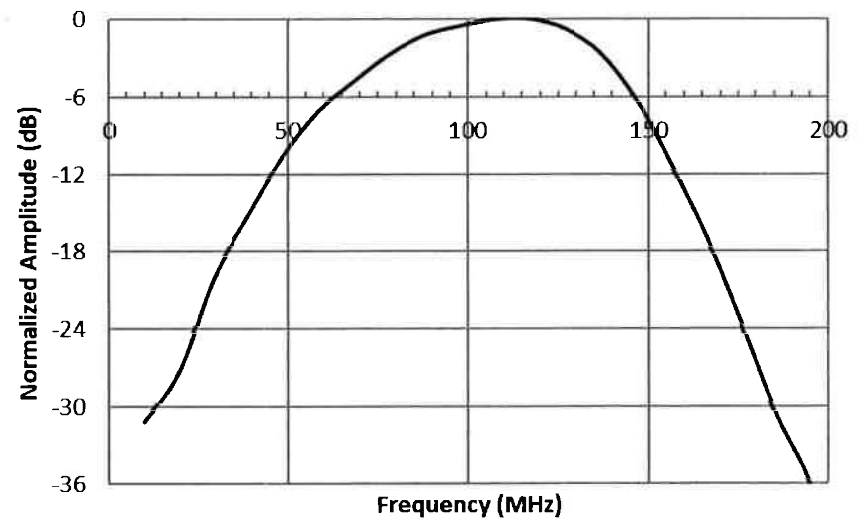
Approx. Round Trip Water Path Length: 1.1 mm

Test Date: February 13, 2025

WAVEFORM (Signal Reflected from Target)



SPECTRUM



Center Frequency: 104.7 MHz
Peak Frequency: 117.2 MHz
-6dB Bandwidth: 79.1%



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TRANSDUCER DATA SHEET

DESCRIPTION

Immersion Transducer

Model Number: 110MHz

Serial Number: 01056

TRANSDUCER SPECIFICATIONS

Nominal Frequency: 110 MHz

Element Diameter: 2.4 mm

Nominal Delay Line Length: 4.25 us

Focal length: 12.7 mm

Lens Diameter: 3.6 mm

TEST EQUIPMENT AND CONDITIONS

Pulser/Receiver: JSR Ultrasonics PureView-U

Settings: 5 dB Gain; 21 ohm Damping

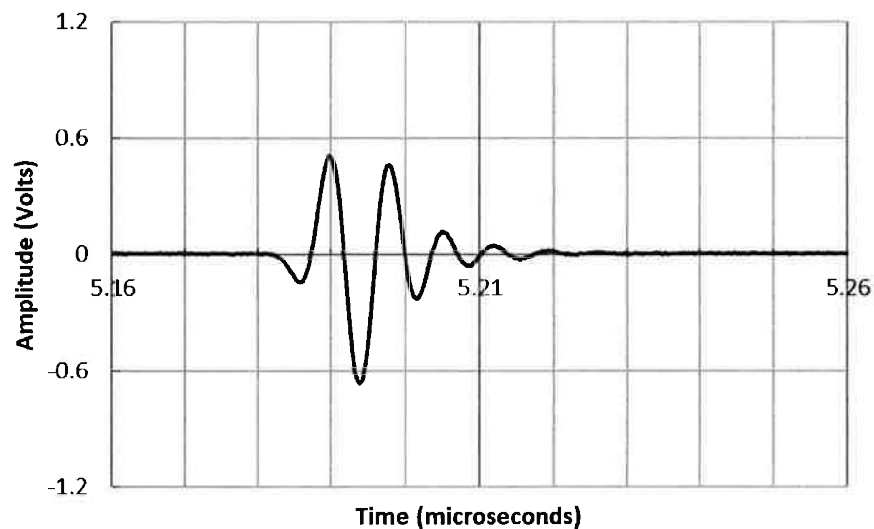
Cable: 20 cm Length, 25 Ohm Impedance

Target: Stainless Steel Sphere; 0.938 in Diameter

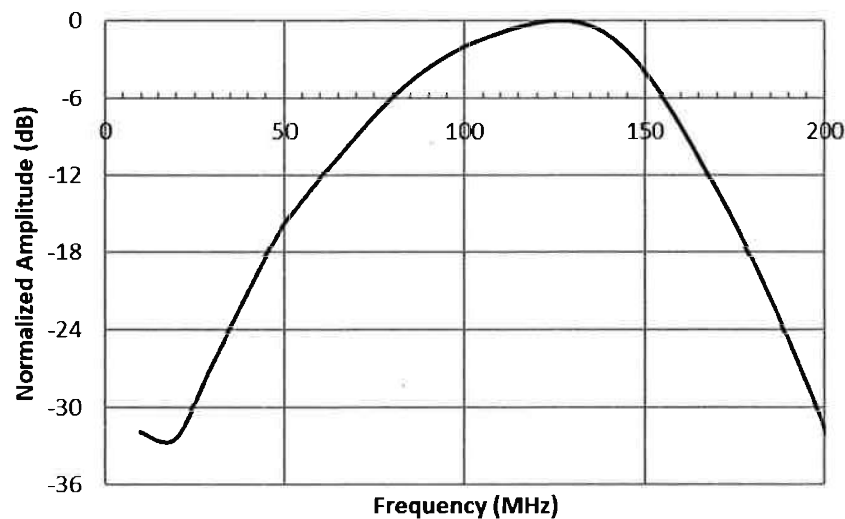
Approx. Round Trip Water Path Length: 1.1 mm

Test Date: February 13, 2025

WAVEFORM (Signal Reflected from Target)



SPECTRUM



Center Frequency: 117.5 MHz
Peak Frequency: 126.9 MHz
-6dB Bandwidth: 63.8%



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TRANSDUCER DATA SHEET

DESCRIPTION

Immersion Transducer

Model Number: 150MHz

Serial Number: 01060

TRANSDUCER SPECIFICATIONS

Nominal Frequency: 150 MHz

Element Diameter: 1.6 mm

Nominal Delay Line Length: 4.25 us

Focal length: 10.0 mm

Lens Diameter: 3.4 mm

TEST EQUIPMENT AND CONDITIONS

Pulser/Receiver: JSR Ultrasonics PureView-U

Settings: 5 dB Gain; 21 ohm Damping

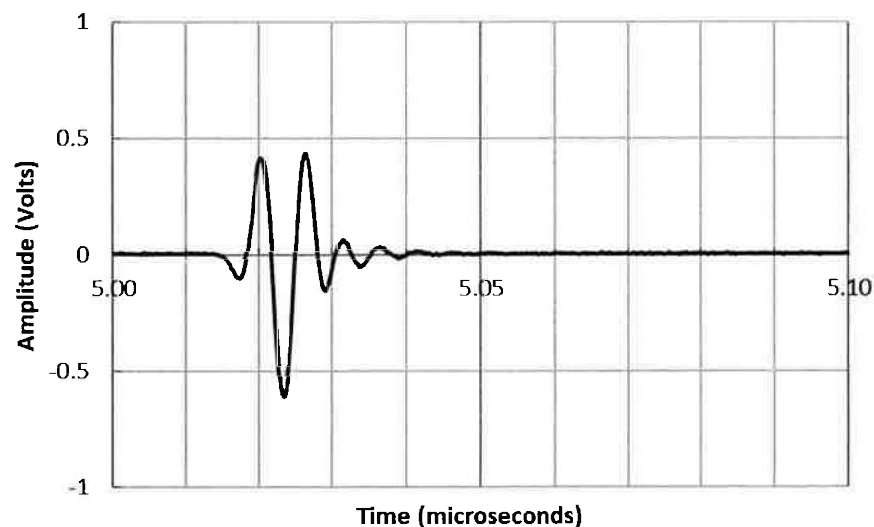
Cable: 20 cm Length, 25 Ohm Impedance

Target: Stainless Steel Sphere; 0.75 in Diameter

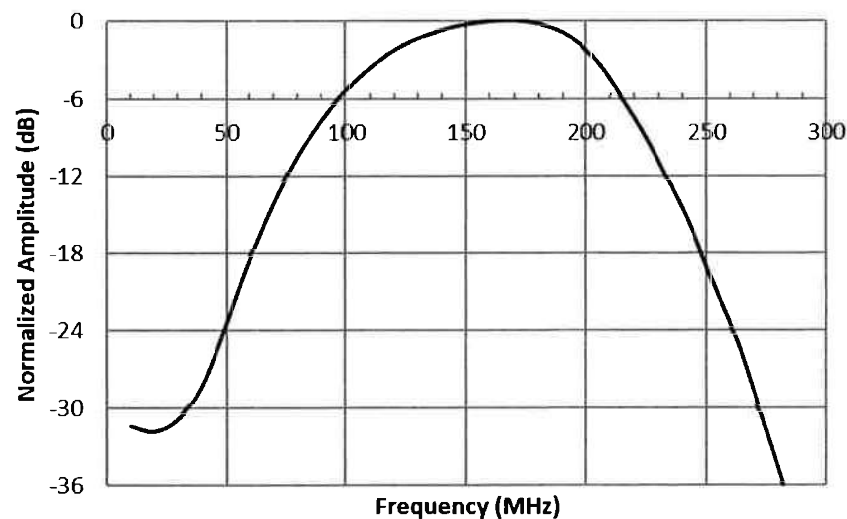
Approx. Round Trip Water Path Length: 0.92 mm

Test Date: February 13, 2025

WAVEFORM (Signal Reflected from Target)



SPECTRUM



Center Frequency: 156.0 MHz
Peak Frequency: 166.0 MHz
-6dB Bandwidth: 75.6%



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TRANSDUCER DATA SHEET

DESCRIPTION

Immersion Transducer

Model Number: 175MHz

Serial Number: 01066

TRANSDUCER SPECIFICATIONS

Nominal Frequency: 175 MHz

Element Diameter: 1.5 mm

Nominal Delay Line Length: 4.25 us

Focal length: 8.0 mm

Lens Diameter: 2.7 mm

TEST EQUIPMENT AND CONDITIONS

Pulser/Receiver: JSR Ultrasonics PureView-U

Settings: 5 dB Gain; 21 ohm Damping

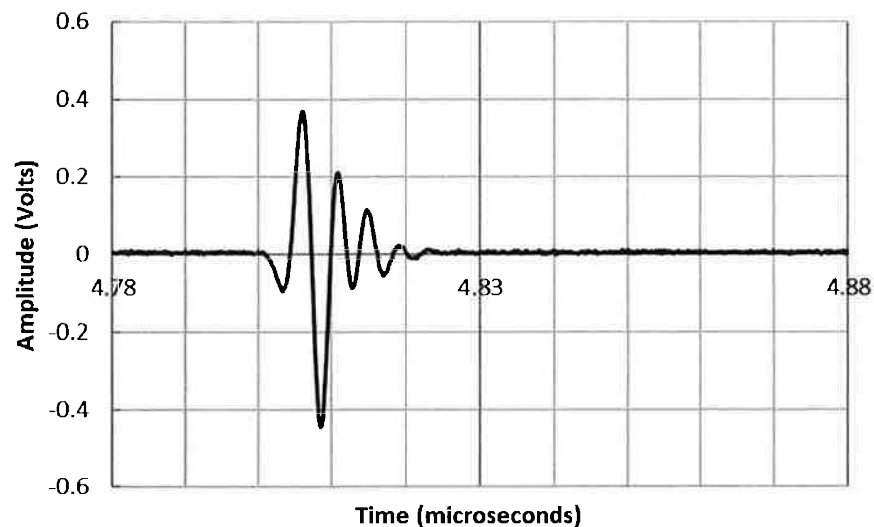
Cable: 20 cm Length, 25 Ohm Impedance

Target: Stainless Steel Sphere; 15.0 mm Diameter

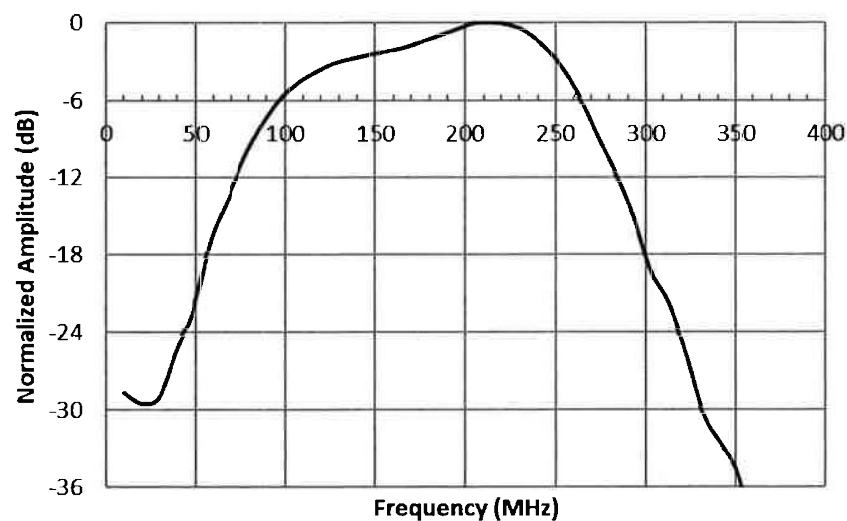
Approx. Round Trip Water Path Length: 0.59 mm

Test Date: January 30, 2025

WAVEFORM (Signal Reflected from Target)



SPECTRUM



Center Frequency: 180.6 MHz
Peak Frequency: 214.8 MHz
-6dB Bandwidth: 92.6%



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TRANSDUCER DATA SHEET

DESCRIPTION

Immersion Transducer

Model Number: TB-0602

Serial Number: 01048

TRANSDUCER SPECIFICATIONS

Nominal Frequency: 200 MHz

Element Diameter: 1.4 mm

Nominal Delay Line Length: 4.25 us

Focal length: 12.0 mm

Lens Diameter: 3.6 mm

TEST EQUIPMENT AND CONDITIONS

Pulser/Receiver: JSR Ultrasonics PureView-U

Settings: 5 dB Gain; 21 ohm Damping

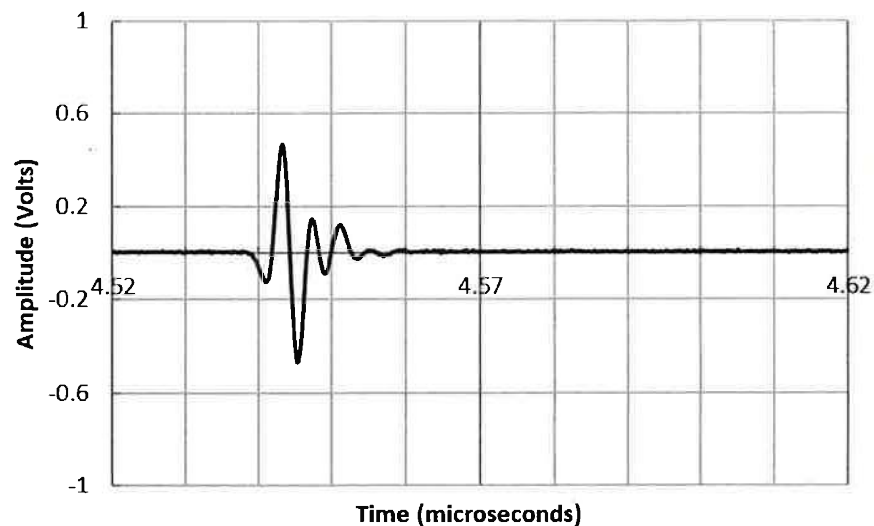
Cable: 20 cm Length, 25 Ohm Impedance

Target: Stainless Steel Sphere; 0.938 in Diameter

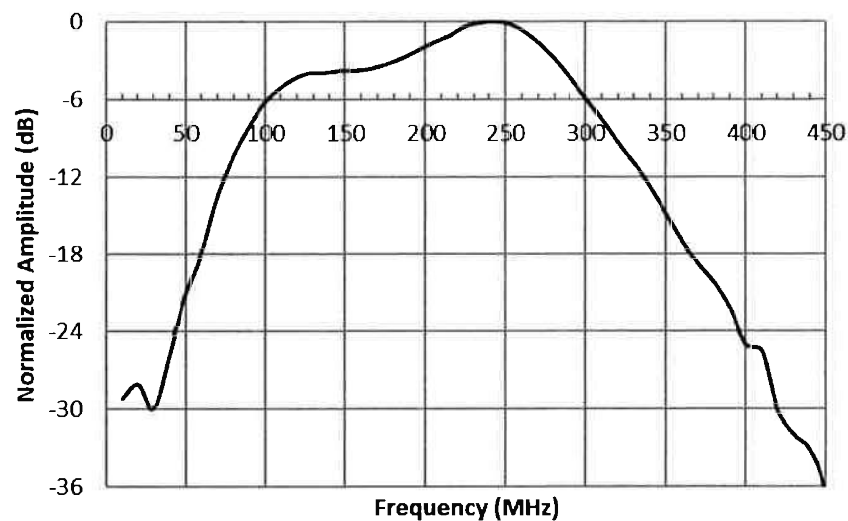
Approx. Round Trip Water Path Length: 0.27 mm

Test Date: January 30, 2025

WAVEFORM (Signal Reflected from Target)



SPECTRUM



Center Frequency: 201.3 MHz
Peak Frequency: 244.1 MHz
-6dB Bandwidth: 98.6%



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TRANSDUCER DATA SHEET

DESCRIPTION

Immersion Transducer

Model Number: 230MHz

Serial Number: 01067

TRANSDUCER SPECIFICATIONS

Nominal Frequency: 230 MHz

Element Diameter: 1.2 mm

Nominal Delay Line Length: 4.25 us

Focal length: 4.0 mm

Lens Diameter: 2.3 mm

TEST EQUIPMENT AND CONDITIONS

Pulser/Receiver: JSR Ultrasonics PureView-U

Settings: 10 dB Gain; 21 ohm Damping

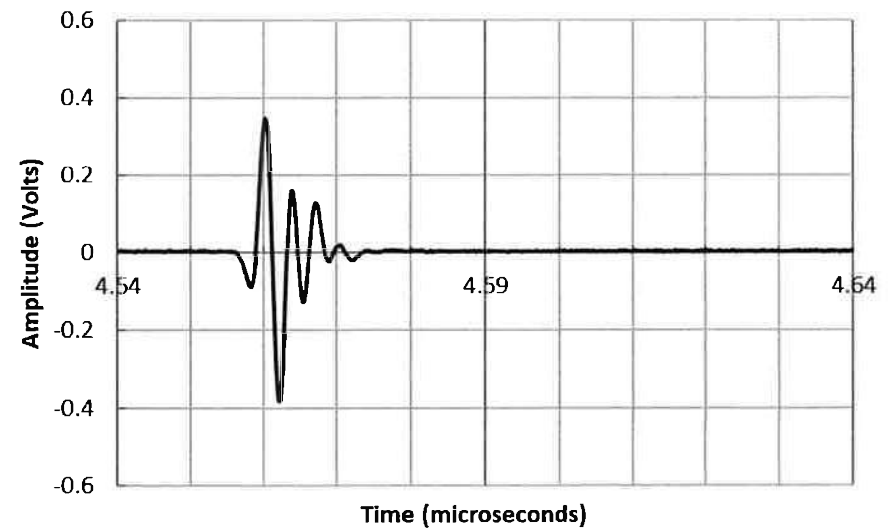
Cable: 20 cm Length, 50 Ohm Impedance

Target: Stainless Steel Sphere; 7.5 mm Diameter

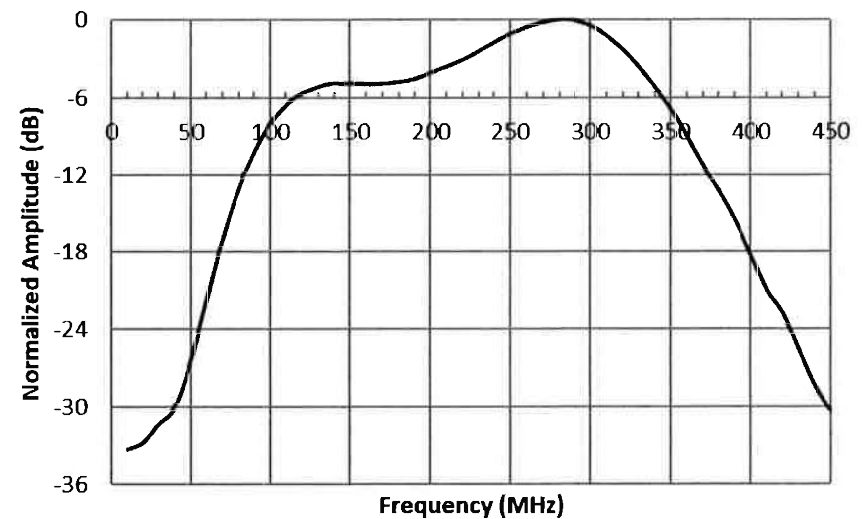
Approx. Round Trip Water Path Length: 0.31 mm

Test Date: February 13, 2025

WAVEFORM (Signal Reflected from Target)



SPECTRUM



Center Frequency: 230.3 MHz
Peak Frequency: 283.2 MHz
-6dB Bandwidth: 99.5%



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TRANSDUCER DATA SHEET

DESCRIPTION

Immersion Transducer

Model Number: 250MHz

Serial Number: 01077

TRANSDUCER SPECIFICATIONS

Nominal Frequency: 250 MHz

Element Diameter: 1.2 mm

Nominal Delay Line Length: 4.25 us

Focal length: 8.0 mm

Lens Diameter: 2.7 mm

TEST EQUIPMENT AND CONDITIONS

Pulser/Receiver: JSR Ultrasonics PureView-U

Settings: 10 dB Gain; 21 ohm Damping

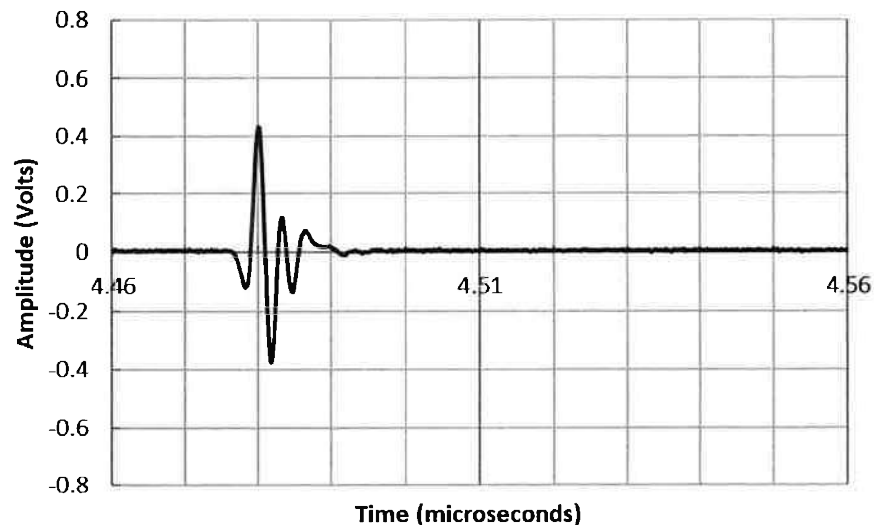
Cable: 20 cm Length, 50 Ohm Impedance

Target: Stainless Steel Sphere; 15.0 mm Diameter

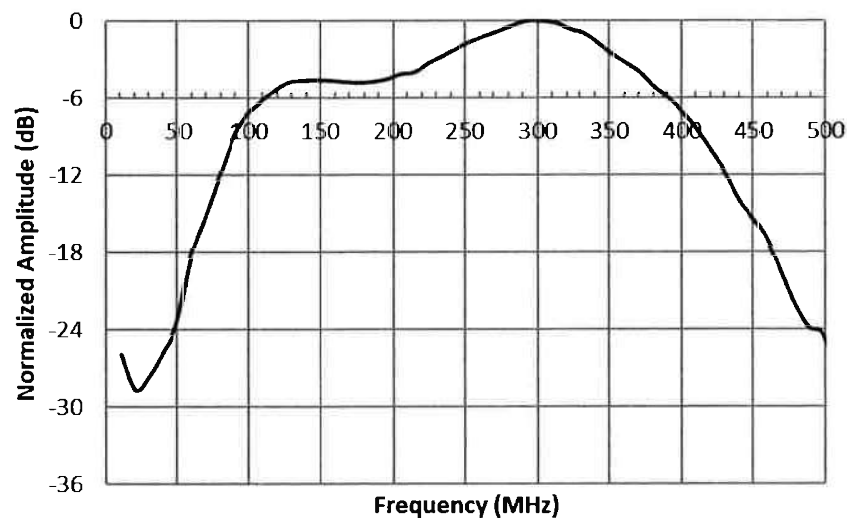
Approx. Round Trip Water Path Length: 0.16 mm

Test Date: February 13, 2025

WAVEFORM (Signal Reflected from Target)



SPECTRUM



Center Frequency: 251.3 MHz
Peak Frequency: 293.0 MHz
-6dB Bandwidth: 111.3%