

HIGH FREQUENCY TRANSDUCERS

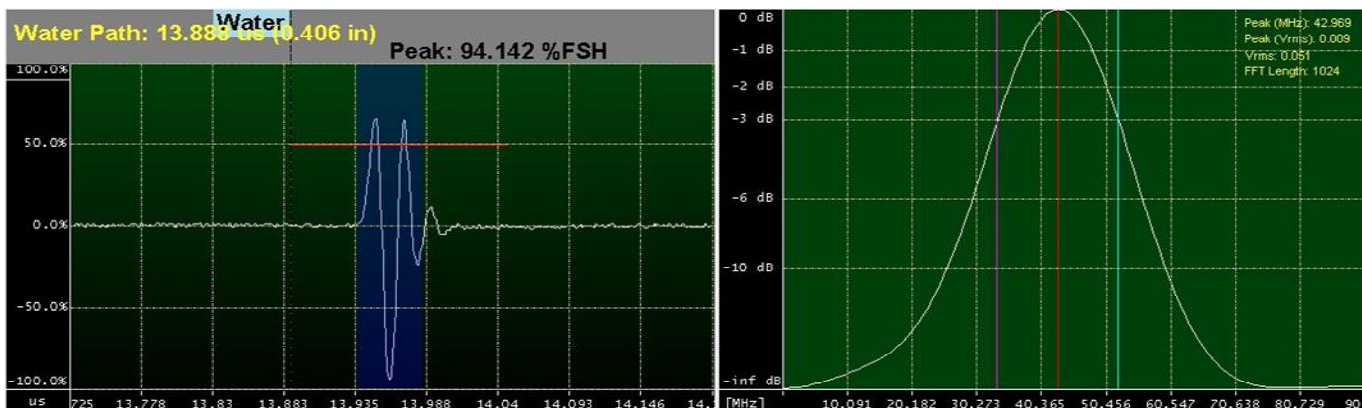
ndtXducer®

At ndtXducer we manufacture the highest quality high frequency ultrasonic transducers for your applications. We offer both contact and immersion, focused and unfocused style transducers up to **200 MHz**. Some of the most common applications using frequencies of **50 MHz** and higher include the following:

- Extremely thin material thickness measurements
- Near surface flaw detection
- Acoustic microscopy and material analysis
- Very thin nonmetallic coatings
- Acoustic microscopy applications
- High frequency material analysis applications

In addition to our standard catalog items we can custom design a transducer to meet your specific requirements. With more than 25 years of custom design experience we can solve and manufacture to meet your unique needs and requests. Please contact our design team to see how we can help you solve your specific design needs.

Typical waveform and spectral response is shown below;



*Specifications subject to change

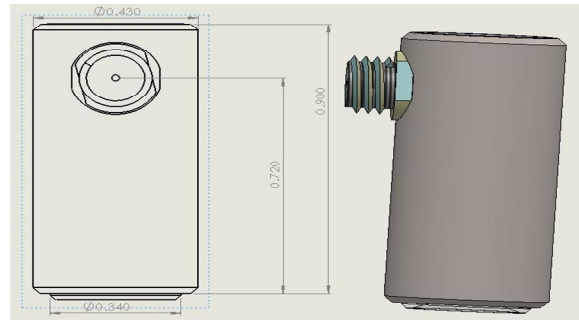
HIGH FREQUENCY TRANSDUCERS

ndtXducer®

HC-style, High Frequency Contact Transducers

- High frequency contact transducers with integral delay line useful for thickness gauging and near surface flaw detection
- Delay Time 2.5us and 4.25us is standard
- Side Microdot connector is standard

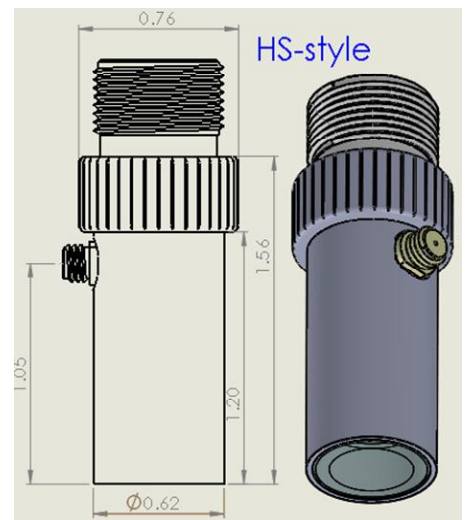
Frequency MHz	Element Diameter	Delay Time	
		2.5us	4.25us
20	0.25" 6mm	HCA202	HCB202
30	0.25" 6mm	HCA302	HCB302
50	0.25" 6mm	HCA502	HCB502
75	0.25" 6mm	HCA752	HCB752
100	0.125" 3mm	HCA1001	HCB1001
125	2mm	HCA1251	HCB1251
150	1mm	HCA1501	HCB1501
200	1mm	HCA2001	HCB2001



HS-style, High Frequency Standard Case Style Transducers

- High Frequency Immersion transducers with integral delay line are useful for thickness gauging and near surface flaw detection
- Available as Flat or Focused with optically ground lens
- Delay Time 2.5us and 4.25us is standard
- Active side Microdot connector with passive UHF for mounting is standard, other connectors or configurations are optional

Frequency MHz	Element Diameter	Delay us	Focal Length	Part Number
20	0.25" 6mm	2.5	2.0" 51mm	HSA202-51
20	0.25" 6mm	4.25	2.0" 51mm	HSB202-51
20	0.25" 6mm	2.5	1.25" 32mm	HSA202-32
20	0.25" 6mm	4.25	1.25" 32mm	HSB202-32
20	0.25" 6mm	2.5	0.75" 19mm	HSA202-19
20	0.25" 6mm	4.25	0.75" 19mm	HSB202-19
20	0.25" 6mm	2.5	0.5" 13mm	HSA202-13
20	0.25" 6mm	4.25	0.5" 13mm	HSB202-13
30	0.25" 6mm	4.25	0.5" 13mm	HSB302-13
50	0.25" 6mm	4.25	0.5" 13mm	HSB502-13
75	0.25" 6mm	4.25	0.5" 13mm	HSB752-13
100	0.125" 3mm	4.25	0.5" 13mm	HSB1003-13



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HIGH FREQUENCY TRANSDUCERS

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HM-style, High Frequency Immersion Transducers

- High Frequency Immersion transducers with integral delay line useful for acoustic microscopy applications
- Available as Flat or Focused with optically ground lens
- Delay Time 9.5us is standard. Ask us about custom options
- Active side Microdot connector with passive UHF for mounting is standard, other connectors or configurations are optional

Frequency MHz	Element Diameter	Delay us	Focal Length	Part Number
35	6mm	10	25mm	HM35-25
35	6mm	10	12mm	HM35-12
50	6mm	10	12mm	HM50-12
75	6mm	10	12mm	HM75-12
100	3mm	10	8mm	HM100-8
150	2mm	10	8mm	HM150-8
200	1mm	10	8mm	HM200-8
150	2mm	10	3mm	HM150-3
200	1mm	10	3mm	HM200-3
200	1mm	10	2mm	HM200-2

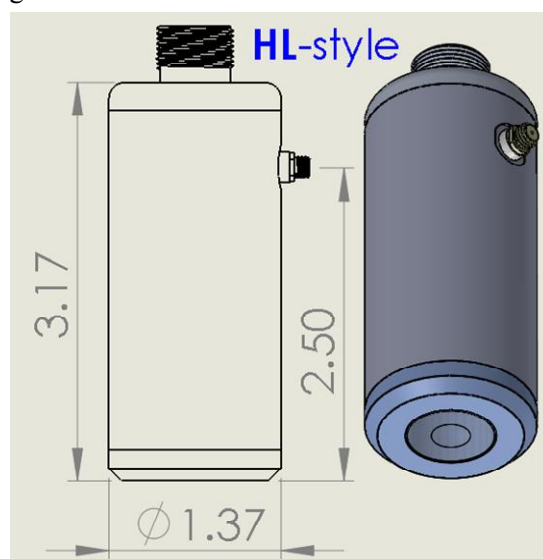


HL-style, High Frequency Immersion Transducers

- High Frequency Immersion transducers with integral delay line useful for acoustic microscopy and material analysis applications
- Available as Flat or Focused with optically ground lens
- Delay Time 19.5us is standard. Ask us about custom options
- Active side Microdot connector with passive UHF for mounting is standard, other connectors or configurations are optional

Frequency MHz	Element Diameter	Delay us	Focal Length	Part Number
50	0.25" 6mm	19.5	2.0" 51mm	HL50-51
50	0.25" 6mm	19.5	1.25" 32mm	HL50-32
50	0.25" 6mm	19.5	1.0" 25mm	HL50-25
50	0.25" 6mm	19.5	0.75" 19mm	HL50-19
50	0.25" 6mm	19.5	0.5" 13mm	HL50-13
50	0.25" 6mm	9.4	0.2" 5mm	HLSW50-5
75	0.25" 6mm	19.5	0.75" 19mm	HL75-19
75	0.25" 6mm	19.5	0.5" 13mm	HL75-13
100	2mm	19.5	0.5" 13mm	HL100-13
100	0.25" 6mm	9.4	0.2" 5mm	HLSW100-5
100	2mm	19.5	0.125" 3mm	HL100-3

***HLSW** transducers to create surface wave in steel



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