



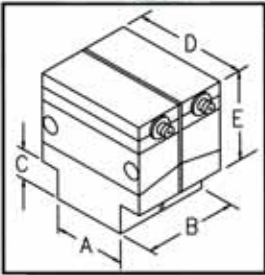
Optima Ultrasonic Transducers

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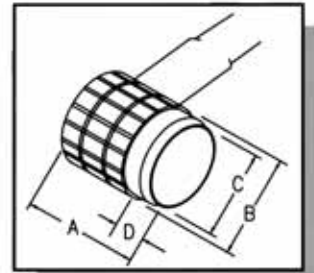
 **NDT Systems**
www.ndtsystems.com

GENERAL PURPOSE Dual Element

Finger Tip Series



Rectangular Series



Dual Element Potted Fingertip			
Freq. MHz	Element Size - in		
	0.25"	0.375"	0.50"
1	-----	-----	DVF014
2.25	DVF022	DVF023	DVF024
3.5	DVF032	DVF033	DVF034
5.0	DVF052	DVF053	DVF054
7.5	DVF072	DVF073	DVF074
10.0	DVF102	DVF103	-----

Element Size	Element Dimensions - in			
	A	B	C	D
.250 Dia	0.55	0.45	0.36	0.15
.375 Dia	0.56	0.625	0.50	0.16
.500 Dia	0.61	0.75	0.62	0.16

Element Size	Dual Element Dimensions - in				
	A	B	C	D	E
.50 X .50	0.52	0.70	0.20	0.80	0.83
.50 X 1.00	1.05	0.70	0.25	1.50	1.04

Dual Element Rectangular		
Freq. MHz	Element Size - in	
	0.50 x 0.50"	0.50 x 1.00"
1	DXR0144	DXR0148
2.25	DXR0244	DXR0248
3.5	DXR0344	DXR0348
5.0	DXR0544	DXR0548

Dual Element Transducers - These transducers produce improved near-surface resolution when compared with normal single element contact transducers. Used on instruments having isolated pulser/receiver connections (through-transmission mode on many instruments), each of the elements functions independently, one as a transmitter, the other as a receiver. Having a remarkable combination of sensitivity, penetration and resolution, dual element transducers are used in precision thickness gaging applications, and for detection of corrosion, erosion, pits and small internal laminar or elongated flaws.

Replacement Delay Lines		
Delay Type	Delay Size - in	
	0.50 x 0.50"	0.50 x 1.00"
Acrylic	DX44	DX48
Hi Temp	DXH44	DXH48

Cylindrical Fingertip Models - Small cylindrical fingertip sizes are provided in hardened Stainless Steel cases and are ideal for areas where access is restricted or when maximum sensitivity and highest resolution are desired. Intermittent operation on hot surfaces up to 400°F is possible using a 15% duty cycle. The cable is permanently side-mounted with two BNC connectors for ultrasonic instrument hook-up.

Rectangular Duals are recommended for more rugged applications or applications requiring greater coverage. These models have replaceable delay lines and cross-talk barriers for use in high-wear applications or where shaped delay lines are needed. The standard delay line on rectangular duals is acrylic. A high temperature delay (intermittent operation to 400°F) option is also offered. Side-mounted Microdot connectors are standard.

NOVA SERIES Dual Element - Probes

Nova TG110DL



Features include:
 50" Range
 Time Encoded 'B' Scan
 50,000 Point Data Logger
 Min, Max Cap & Alarms
 AutoProbe Recognition
 PC Data Transfer Package

NDT Systems' Nova transducers listed on this page perform superbly on our older Nova models as well as the current models. Although some older Nova transducer model numbers have changed, the descriptions given here will readily enable you to match earlier models with the new ones. Please choose the appropriate model transducer for the appropriate model thickness gage.

	Model	Range	Freq	Dia	Dia @ tip	Height	Temp		Holder
DV-506	6 100D	0.040-9.999	5.0	0.375	0.56	1.30	600°F	LMD-1	BH-1
DV-507	6 100D	0.060-9.999	5.0	0.375	0.56	1.30	600°F	LMD-1	BH-1
DF-505	4 100D	.040-2.000	5.0	0.300	0.55	0.45	400°F	Side - Int	N/A
DF-505TM	2 100D	.040-2.000	5.0	0.300	0.55	0.45	400°F	Top - Int	N/A
DF-502	3 100D	.060-2.000	5.0	0.220	0.28	0.75	150°F	Side - Int	N/A
DF-502TM	1 100D	.060-2.000	5.0	0.220	0.28	0.75	150°F	Top - Int	N/A
DV-208	7 100D	0.200-9.999	2.0	0.600	0.90	1.50	600°F	LMD-1	BH-2
DQ506	9 100D	0.200-9.999	5.0	0.375	0.60	3.40	1000°F	LMD-1	BH-3
TG-506	6 TG110	0.040-9.999	5.0	0.375	0.56	1.30	450°F	LMD-1	BH-1
TG-556	6 TG110	0.040-9.999	5.0	0.375	0.56	1.30	600°F	LMD-1	BH-1
TG-560P	6 TG110	0.040-9.999*	5.0	0.375	0.90	1.50	450°F	LMD-1	BH-1
TG-790	8 TG110	0.040-9.999	5.0	0.280	0.43	2.50	900°F	LMD-1	N/A
TG-505	4 TG110	0.040-9.999	5.0	0.375	0.60	3.40	450°F	Side - Int	N/A
TG-505TM	2 TG110	0.040-9.999	5.0	0.375	0.56	1.30	450°F	Side - Int	N/A
TG-208	7 TG110	0.200-9.999	2.0	0.375	0.56	0.80	450°F	LMD-1	BH-2
TQ-506	9 TG110	0.200-9.999	2.0	0.600	0.90	1.50	1000°F	LMD-1	BH-3
TG-502	3 TG110	0.060-1.000	10.0	0.280	0.38	0.80	450°F	Side - Int	N/A
TG-502TM	TG110	0.060-1.000	5.0	0.375	0.60	3.40	450°F	Side - Int	N/A

* 0.110 - 3" in Through Paint Mode

Temperatures indicated are for intermittent applications only. The temperature of the transducer case should not exceed 200 degrees F where no temperature is indicated.

BH style probe holders are made of aluminum with a flared skirt and recessed set screw for attachment to the transducer.