

High Frequency Transducers



High Frequency Transducers offer frequency ranges from 30MHz to 150MHz. Applications include acoustic microscopy, flaw detection, and characterization of solder bumps in flip-chips in the microelectronics industry, high resolution thickness of meals down to 0.001" (0.0254mm), and high resolution surface wave imaging.

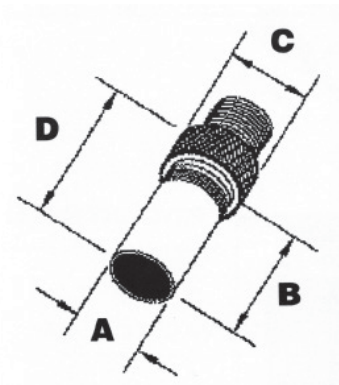
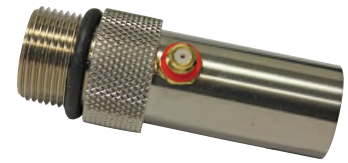
Advantages:

- Broadband, highly damped signals for flaw detection of defects as small as 0.001" (0.0254mm)
- Extremely short wavelengths for thickness gauging
- Available in both Contact and Immersion Delay Styles
- Immersion Transducers available with optically ground lenses

High Frequency Standard Immersion Case Style

High Frequency Standard Immersion Case Style Transducers are available in frequencies from 20MHz to 100MHz. These transducers are all provided with axial UHF connectors for support and either a side-mount or axial-mount microdot for the electrical connector. In addition, they come with an internal fuse silica delay line and are available flat or focused. Epoxy lenses are used for frequencies up to 30MHz. Custom transducers are available above 30MHz and are offered with optically ground lenses.

PART NUMBER	FREQUENCY (MHz)	SIZE INCHES (mm)	DELAY (μS)	FOCAL LENGTH INCHES (mm)
VF 401	20.0	0.25 (6.35)	4.25	flat
VF 402	20.0	0.25 (6.35)	2.5	0.75 (19.05)
VF 403	20.0	0.25 (6.35)	4.25	1.25 (31.75)
VF 404	20.0	0.25 (6.35)	4.25	2.0 (50.8)
VF 405	30.0	0.25 (6.35)	4.25	flat
VF 406	30.0	0.25 (6.35)	2.5	0.75 (19.05)
VF 407	30.0	0.25 (6.35)	4.25	1.25 (31.75)
VF 408	30.0	0.25 (6.35)	4.25	2.0 (50.8)
VF 409	50.0	0.25 (6.35)	4.25	flat
VF 410	50.0	0.25 (6.35)	2.5	0.75 (19.05)
VF 411	50.0	0.25 (6.35)	4.25	1.25 (31.75)
VF 412	50.0	0.25 (6.35)	2.5	0.5 (12.7)
VF 413	75.0	0.25 (6.35)	2.5	0.5 (12.7)
VF 414	100.0	0.25 (6.35)	2.5	0.5 (12.7)



DIMENSIONS INCHES (mm)			
A	B	C	D
0.62 (15.748)	1.2 (30.48)	0.75 (15.24)	1.56 (39.624)