

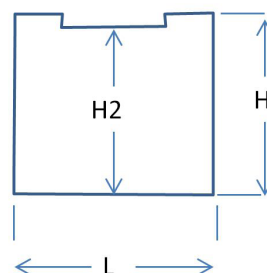
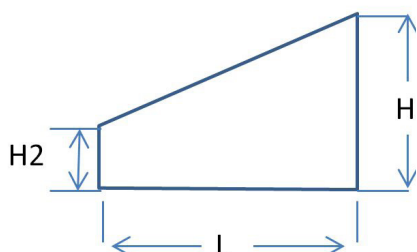
Phased Array Transducers

X-Series

The X-Series of transducers now offer the operator a broader choice in range and frequencies; together with the assurance of industry standard configurations. These X-Series phased array probes have an integral 2.5 m cable and an IPEX connector. Compatible with the Sonatest **veo**, Prisma and other leading phased array testing equipment. Most probes are also available with a 5 m cable, part numbers ending in IX500.

Transducer Models									
Part Number	Frequency	Number Elements	Element Pitch	Aperture Length	Aperture Elevation	External Size	External Size	External Size	Wedge Series
	F		P	L	E	L	W	H	
	(MHz)		(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
X1 Series									
X1PE5.0M10E0.6PIX250	5	10	0.6	6	5	13.0	10.0	23.0	X1-SB54
X1PE10M10E0.6PIX250	10	10	0.6	6	5	13.0	10.0	23.0	
X1-Sub									
X1PE10M16E0.3PIX250	10	16	0.3	5	5	8.0	8.0	23.0	X1-SB55
X2 Series									
X2PE5.0M16E0.6PIX250	5	16	0.6	10	10	16.0	23.0	20.0	X2-SB56
X2PE5.0M16E0.6PIX500	5	16	0.6	10	10	16.0	23.0	20.0	
X2PE7.5M16E0.6PIX250	7.5	16	0.6	10	10	16.0	23.0	20.0	
X2PE7.5M16E0.6PIX500	7.5	16	0.6	10	10	16.0	23.0	20.0	
X2PE10M16E0.6PIX250	10	16	0.6	10	10	16.0	23.0	20.0	
X2PE10M16E0.6PIX500	10	16	0.6	10	10	16.0	23.0	20.0	
X2PE10M32E0.3PIX250	10	32	0.3	10	10	16.0	23.0	20.0	
X3 Series									
X3PE2.2M48E0.8PIX250	2.25	48	0.8	39	8	45.0	23.0	20.0	X3-SB57
X3PE2.2M48E0.8PIX500	2.25	48	0.8	39	8	45.0	23.0	20.0	
X3PE3.5M64E0.6PIX250	3.5	64	0.6	39	8	45.0	23.0	20.0	
X3PE3.5M64E0.6PIX500	3.5	64	0.6	39	8	45.0	23.0	20.0	
X3PE5.0M64E0.6PIX250	5	64	0.6	39	8	45.0	23.0	20.0	
X3PE5.0M64E0.6PIX500	5	64	0.6	39	8	45.0	23.0	20.0	
X3PE10M64E0.6PIX250	10	64	0.6	39	8	45.0	23.0	20.0	
X3PE10M64E0.6PIX500	10	64	0.6	39	8	45.0	23.0	20.0	
X4 Series									
X4PE2M8E1.0P35WIX250	2	8	1.0	8	9	27.0	16.5	22.0	n/a
X4PE4M16E0.5P35WIX250	4	16	0.5	8	9	27.0	16.5	22.0	
X5 Series									
X5PE2.2M16E1.0PIX250	2.25	16	1.0	16	16	34.0	20.0	18.0	X5-SB58
X5PE2.2M16E1.0PIX500	2.25	16	1.0	16	16	34.0	20.0	18.0	
X5PE5.0M16E1.0PIX250	5	16	1.0	16	16	34.0	20.0	18.0	
X5PE5.0M16E1.0PIX500	5	16	1.0	16	16	34.0	20.0	18.0	

Probes: • IX250 2.5 m cable length, IPEX connector • IX500 5 m cable length, IPEX connector



Features

- Phased array beam wave contact probe.
- Rectangular, lead zirconate titanate crystal.
- Damped for bandwidth.
- Axial and Circumferential ID or OD profiling available.

Frequent Applications

- Aerospace
- Composites
- Machined Parts
- Critical Welds

Wedge Models							
Part Number	Cut Angle	Beam Angle	Length	Width	Front Height	Back/Path Height	Features
	(°)	(°)	L (mm)	W (mm)	H (mm)	H2 (mm)	Flat
X1 Series							
X1-SB54-N0L(10)	0.0	0	12.0	23.0	11.0	10.0	F
X1-SB54-N0L(20)	0.0	0	12.0	23.0	21.0	20.0	F
X1-SB54-N55S	36.0	55	36.2	16.0	2.00		A
X1-SB54-N60L	20.0	60	29.1	16.0	21.2		A
X1-SB55-N0L(5)	0.0	0	15.0	15.0	15.0	5.0	F
X1-SB55-N0L(20)	0.0	0	15.0	15.0	30.0	20.0	F
X1-SB55-N45S	31.0	45	21.1	12.0	13.3	6.6	A
X1-SB55-N55S	36.0	55	26.4	16.0	13.4		A
X1-SB55-N60L	20.0	60	33.0	16.0	18.0		A
X1-SB55-N60S	39.0	60	21.3	12	13.3	5.1	A
X2 Series							
X2-SB56-N0L	0.0	0	23.0	25.0	25.0	25.0	F
X2-SB56-N45S	31.0	45	26.5	25.0	15.3		A
X2-SB56-N60S	39.1	60	26.5	25.0	17.5		A
X2-SB56-N60L	20.0	60	26.3	25.0	25.0		A
X2-SB56-N0L-IHC	0.0	0	23.0	25.0	25.0	25.0	FI
X2-SB56-N45S-IHC	31.0	45	26.5	25.0	15.3		AI
X2-SB56-N60S-IHC	39.1	60	26.5	25.0	17.5		AI
X2-SB56-N60L-IHC	20.0	60	26.3	25.0	25.0		AI
X3 Series							
X3-SB57-N0L	0.0	0	45.0	25.0	25.0	25.0	F
X3-SB57-N45S	31.0	45	66.0	25.0	41.4		A
X3-SB57-N45L	16.5	45	65.0	25.0	34.6		A
X3-SB57-N55S	36.0	55	65.4	25.0	38.7		A
X3-SB57-N60S	39.1	60	65.6	25.0	36.5		A
X3-SB57-N60L	20.0	60	66.3	25.0	41.2		A
X3-SB57-N0L-IHC	0.0	0	45.0	38.0	25.0	25.0	FI
X3-SB57-N45S-IHC	31.0	45	66.0	38.0	41.4		AI
X3-SB57-N45L-IHC	16.5	45	60.4	38.0	34.6		AI
X3-SB57-N55S-IHC	36.0	55	65.4	38.0	38.7		AI
X3-SB57-N60S-IHC	39.1	60	65.6	38.0	36.5		AI
X3-SB57-N60L-IHC	20.0	60	66.3	38.0	41.4		AI
X5 Series							
X5-SB58-N0L	0.0	0	38.0	38.0	40.0	40.0	F
X5-SB58-N60S	39.1	60	45.0	38.0	30.0		A
X5-SB58-N60L	20.0	60	45.0	38.0	30.0		A
X5-SB58-N0L-IHC	0.0	0	38.0	52.0	40.0	40.0	FI
X5-SB58-N60S-IHC	39.1	60	45.0	52.0	30.0		AI
X5-SB58-N60L-IHC	20.0	60	45.0	52.0	30.0		AI

Beam Angle specified in Steel, Suffix L – Longitudinal Wave Mode S- Shear Wave mode .

Features: F - Flat Delay Line, A- Angled, I – Irrigated with wear pins

55 SW, SNW Wedges (size 5/8 × 5/8) can also be used with the X5 series of probes.