MATRIX (2D) - PHASED ARRAY TRANSDUCERS

Matrix array probe

Ultrasonic Matrix (2D) Phased Array Transducers are dedicated to multi-angle inspections or 3D image reconstructions. Whenever flaw orientation is unknown, it is recommended to use the Matrix 2D Phased Array Technique which is capable of steering the beam in any direction and with any angle.

Ultrasonic Matrix (2D) Phased Array transducers are available in the immersion or contact inspection technique. They are manufactured with the piezo-composite technology. They can be flat, curved (convex or concave) or transversely focused.

These transducers can be provided with specific wedges, irrigation chambers, cables or adaptors and any accessory that may be needed for industrial application.

Minimum features :

Frequency (MHz)	Minimum pitch (mm)	Mini. radius (mm)	Number of elements
0.5	2.5	40	16 - 32 - 64 - 128
1	1.0	25	16 - 32 - 64 - 128 - 256 - 512
2	0.8	10	16 - 32 - 64 - 128 - 256 - 512 -1024
3	0.8	10	16 - 32 - 64 - 128 - 256 - 512 -1024
5	0.6	5	16 - 32 - 64 - 128 - 256 - 512 -1024
7	0.6	5	16 - 32 - 64 - 128 - 256 - 512 -1024
10	0.4	3	16 - 32 - 64 - 128 - 256 - 512 -1024
15	0.4	3	16 - 32 - 64 - 128 – 256
20	0.3	3	16 - 32 - 64 - 128 - 256
25	0.3	3	16 - 32 - 64 - 128

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