TRM 8 MHz

DESCRIPTION

The 8 MHz transducer module (TRM) is a great choice for a wide range of metallic applications. This frequency provides high resolution for great sensitivity, while also providing enough penetration for fine-grained metal. It is also capable of inspection of high-grade composites, such as aerospace CFRP. Other applications include process piping. Typical component thickness range are around 1-20mm*.

* Get in touch for specific material and penetration information as it can vary.

TECHNICAL DETAILS

- Transducer Type Matrix (2D-array)
- Transducer Elements 128x128 (16,384)
- Transducer Aperture 32 x 32 mm
- Element Pitch 250 μm
- Center Frequency 8 MHz
- -6dB Frequency Bandwidth 120%
- Sample Rate 50 MHz
- Acquisition Rate A-scans 100,000 - 500,000 datasets per second
- Acquisition Rate 3D 10-40 3D volumes per second

SIZE AND WEIGHT

- Width 40mm / 1.6 inch
- Length 40mm / 1.6 inch
- Height 84mm / 3.4 inch
- Weight 265 grams (excluding cable and delay line)

RESOURCES

- Capability study - Detection of water ingress on an aluminium honeycomb sandwich panel. This is a common inspection, usually done with legacy ultrasonic systems.