TRM 3.5 MHz

The 3.5 MHz transducer module (TRM) is an excellent choice for CFRP applications, as the frequency is low enough to travel through CFRP but still high enough to get a great resolution on your inspection. This TRM is approved and recommended to be used within both the aerospace and automotive industries for CFRP inspection. It also works well for thicker metals, and for inspection of attenuative metals such as stainless steel and Inconel. Typical component thicknesses are around 1-40mm*.

* 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 3.5 MHz
- -6dB Frequency Bandwidth 100%
- 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 Monolithic CFRP step block