

Simultaneous Pulse-Echo & Thru-Transmission

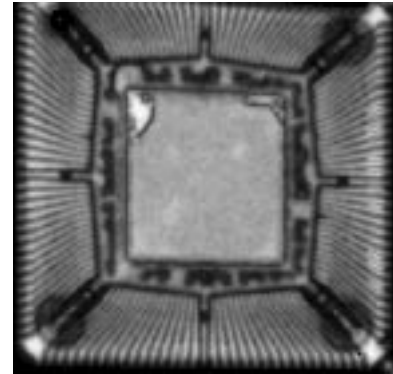
PETT™

Generate two images in one scan with PETT!

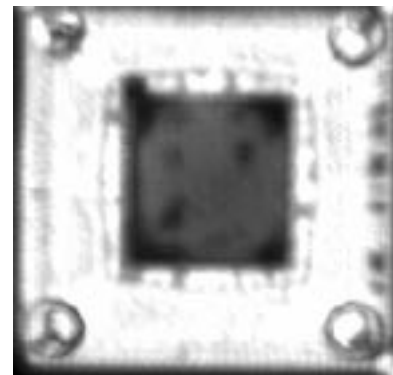
Both a Thru-Transmission image and Pulse-Echo image are generated using simultaneous Pulse-Echo and Thru-Transmission (PETT). This two for one scan saves the user time and provides quick defect detection and verification all in one scan.

PETT turns a two-step process into one quick and easy scan. The user can quickly look at the Pulse-Echo image to determine if a defect is present. If a defect is present the user can the Thru-Transmission image to verify the defect.

PETT is an extremely powerful tool that reduces scan time and is easy to setup. It provides the user with tools for quick defect detection (Thru-Transmission) and verification (Pulse-Echo).



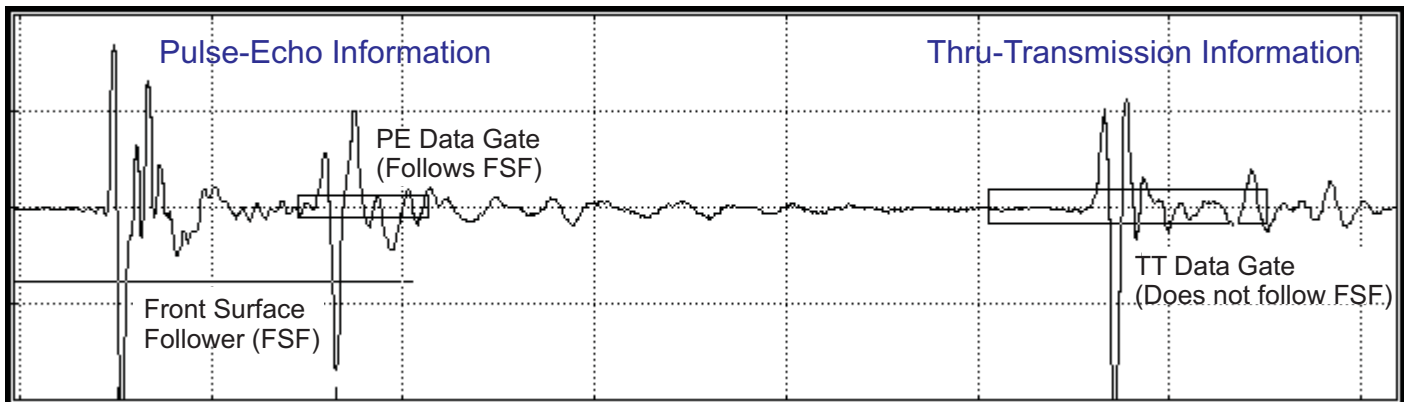
Detect with Pulse-Echo: The Pulse-Echo image is generated by reflection. In pulse-echo, the signal is sent through the part and signals at different depths are reflected back. The image generated by pulse-echo provides the details of the defect.



Verify with Thru-Transmission: Sending the acoustic signal the whole way through the part where a receiving transducer collects the signal generates the Thru-Transmission image. The generated image quickly shows whether or not a defect is present.

The PETT Advantage:

- Reduces Scan Time
- Doubles Throughput
- Easy to Setup
- Scans Trays, Boards or Individual Parts
- Provides Simultaneous Defect Detection and Verification



Typical PETT Waveform

U.S. Patent 6,032,534

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