

ULTRASONIC INSPECT

TECHNIQUE SHEET

APPLICABLE STANDARD

AMS-STD-2154E

Rev. A

• Document No:

-

• Date:

Jan 12, 2026

• Part No:

-

01

PART IDENTIFICATION

PART NUMBER

-

MATERIAL

-

GEOMETRY

-

PART NAME

-

MATERIAL SPEC

-

DRAWING NO

-

02

INSPECTOR & CERTIFICATION

INSPECTOR

-

CERT. NUMBER

-

LEVEL

-

ORGANIZATION

-

CONFIDENTIAL

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TABLE OF CONTENTS

1. Part Information

2. Equipment

3. Calibration

3.1 Calibration Block Diagram

4. Scan Parameters

5. Acceptance Criteria

6. Scan Details & Directions

7. Scan Plan & Reference Documents

8. Documentation

9. Approval Signatures

3

4

5

6

7

8

9

10

11

12

1. PART INFORMATION

Parameter	Value
Part Number	-
Part Name	-
Material	-
Material Specification	-
Part Type / Geometry	-
Drawing Number	-
Heat Treatment	-

Dimensions

Dimension	Value
Thickness	25.0 mm
Length	100.0 mm
Width	50.0 mm

2. EQUIPMENT

Equipment	Value
Manufacturer	-
Model	-
Serial Number	-
Software Version	-

Transducer

Transducer Parameter	Value
Probe Model	-
Frequency	5.0 MHz
Type	-
Element Diameter	0.500 inches
Couplant	-

Performance Parameters

Vertical Linearity	95%
Horizontal Linearity	85%
Entry Surface Resolution	0.125 inches
Back Surface Resolution	0.050 inches

3. CALIBRATION

Calibration Parameter	Value
Standard/Block Type	-
Reference Material	-
Block Dimensions	-
Block Serial Number	-
Last Calibration Date	-
Metal Travel Distance	-

3.1 CALIBRATION BLOCK DIAGRAM

No calibration block diagram available.

4. SCAN PARAMETERS

Parameter	Value
Scan Method	-
Technique	Conventional
Scan Type	-
Scan Pattern	-
Coupling Method	-

Speed & Coverage

Scan Speed	100 mm/s
Scan Index	70 %
Coverage	100%
Water Path	-

Instrument Settings

Pulse Repetition Rate (PRF)	1000 Hz
Gain Settings	-
Alarm Gate Settings	-

5. ACCEPTANCE CRITERIA

Criterion	Limit
Single Discontinuity	-
Multiple Discontinuities	-
Linear Discontinuity	-
Back Reflection Loss	50%
Noise Level	-

6. SCAN DETAILS & DIRECTIONS

No scan directions configured.

8. SCAN PLAN & REFERENCE DOCUMENTS

The following reference documents are associated with this technique sheet:

#	Document Title	Description	Category	File Reference
1	UT Scan Planning Guide	Complete guide for scan planning and execution	Planning	scan-plan-guide.docx
2	TCG for Shear Wave Calibration	Time Corrected Gain calibration procedures for shear wave testing	Calibration	tcg-shear-wave-calibration.docx

NOTE

The documents listed above provide detailed procedures, calibration guides, and reference materials. Refer to these documents for complete inspection methodology and compliance requirements.

8. DOCUMENTATION

Inspector

Inspector Name	-
Certification Number	-
Level	-
Certifying Organization	-

Customer & Document

Customer Name	-
Purchase Order	-
Part Serial Number	-
Inspection Date	Jan 12, 2026
Procedure Number	-
Drawing Reference	-
Revision	A

9. APPROVAL SIGNATURES

Role	Name / Signature	Date	Comments
Prepared By	_____	Jan 12, 2026	
Reviewed By (Level III)	_____	_____ __	
Approved By	_____	_____ __	

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Document generated on 12.1.2026 by Scan-Master.