## Revisions

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## Contract No.

AMERICAN MICROWAVE CORPORATION
FREDERICK, MD 21701

TYPE TEST PROCEDURE
PDS 24433: SINGLE POLE, SEVEN THROW PIN DIODE SWITCH

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1
TYPE

TEST PROCEDURE

FOR

WESTINGHOUSE

MODEL NUMBER PDS24433

SINGLE POLE, SEVEN THROW

PIN DIODE SWITCH

Drawing Number: 100-2368
Revision D

Page 2 of 4
1.0 SCOPE

This purpose of this document is to provide a "Type Test Procedure" for the PDS24433 Single Pole, Seven Throw PIN Diode Switch.

2.0 Documents Required

- **Mil-Std-202F**
  - Test Methods for Electronic and Electrical component Parts.

- **PDS24433**
  - Specification for SP7T PIN diode switch

- **FAA-G-2100e**
  - U.S Department of Transportation, federal Aviation Administration (FAA) Specification, Electronic Equipment, General Requirements

- **100-2236**
  - American Microwave Acceptance Test Procedure for PDS24433 SP7T PIN Diode Switch

3.0 Pre-Conditioning

Switches subjected to this Type Test Procedure must have first successfully completed the Acceptance Test Procedure, American Microwave Drawing Number 100-2236. It is intended that tests in this plan are to be carried out in the order presented in this plan.

4.0 Subject the unit to the environmental profile specified in FAA-G-2100e, Par. 4.11 (temperature range is to be -50 °C to +60 °C).

4.1 Tests to be performed at the intervals specified in FAA-G-2100e, paragraph 4.11 and Mil-STD-202F, Method 105L, Condition A, are to be as per the procedures described in the Acceptance Test Procedure AMC Drawing 100-2236:

- A. VSWR (ref PDS24433, par 3.0)
- B. Insertion Loss (ref PDS24433, par 3.0)
- C. Amplitude Match (PDS24433) (contained in Insertion Loss test of the ATP)
- D. Switching Time (ref PDS24433, par 3.0)
- E. Isolation (ref PDS24433, par 3.0)

Page 3 of 4
5.0 Following successful completion of 5.0, perform the following electrical tests on the Unit (one time only):

A. Noise Isolation per PDS24433 Paragraph 3
B. Switching Transients as per AMC ATP 100-2236 (ref PDS24433 Par 3)
C. RF Energy Leakage as per PDS24433, par 3.0,
D. RF Power Handling Capability (PDS24433, par 3.0)

6.0 Physical Inspection

6.1 Procedure
Visually inspect the unit per Mil-Std-454, Requirement 9 and AMC workmanship standards.