

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
		ORIGINAL RELEASE	10/14/91	
	A	PER ECN # 91-049	11/23/91	
	B	PER ECN # 91-052	12/30/91	
	C	PER ECN # 92-004	02/11/92	
	D	PER ECN # 92-008	03/23/92	<i>[Signature]</i>

REV STATUS	REV																
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
REV STATUS	REV																
OF SHEETS	SHEET	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
CONTRACT No.:		<b>AMERICAN MICROWAVE CORPORATION</b> FREDERICK, MD 21701															
DRAWN		DATE	<b>TYPE TEST PROCEDURE</b> <b>PDS 24433: SINGLE POLE, SEVEN</b> <b>THROW PIN DIODE SWITCH</b>														
CHECK																	
APPD.																	
ENGR.	<i>[Signature]</i>	3-24-92															
PROD.																	
QC.	<i>[Signature]</i>	3-24-92	SIZE: A	FSCM: 60483	DRAWING No: 100-2368												
			REV: D	SCALE: N/A	SHEET <u>1</u> OF <u>4</u>												



***TYPE***  
***TEST PROCEDURE***  
  
***FOR***  
  
***WESTINGHOUSE***  
  
***MODEL NUMBER PDS24433***  
  
***SINGLE POLE, SEVEN THROW***  
  
***PIN DIODE SWITCH***

Drawing Number: 100-2368  
Revision D



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March 23, 1992

### 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 ° to +60 °).

#### 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)



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**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.