

**ENVIRONMENTAL QUALIFICATION FORM**

**NOMENCLATURE:** TRANSPONDER ANTENNA (incomplete system)

**TYPE/MODEL/PART NO.:** AV-289

**TSO NO.:** C74d

**MANUFACTURE'S SPECIFICATION AND/OR OTHER APPLICABLE SPECIFICATION:** AV-289 PRODUCT DRAWING PACKAGE AND ELECTRICAL TEST SPECIFICATION

**MANUFACTURER:** RAMI (R.A. MILLER INDUSTRIES INC.)

**ADDRESS:** 14500 168TH AVE., GRAND HAVEN, MI 49417

**REVISION & CHANGE NUMBER OF DO-160:** G, Change 1, December 16, 2014

**DATE TESTED:** Oct 2016 – Jan 2017

<b>CONDITIONS</b>	<b>SECTION</b>	<b>DESCRIPTION OF TESTS CONDUCTED</b>
Temperature and Altitude	4.0	Equipment tested to Category [F2]
Ground Survival Low Temperature Test and Short-Time Operating Low Temperature Test	4.5.1	Equipment Identified as Category X. No testing performed
Operating Low Temperature Test	4.5.2	Equipment tested to Category [F2]
Ground Survival High Temperature Test and Short-Time Operating High Temperature Test	4.5.3	Equipment Identified as Category X. No testing performed
Operating High Temperature Test	4.5.4	Equipment tested to Category [F2]
In-Flight Loss of Cooling	4.5.4	Equipment Identified as Category X. No testing performed
Altitude	4.6.1	Equipment tested to Category [F2]
Decompression	4.6.2	Equipment Identified as Category X. No testing performed

<b>CONDITIONS</b>	<b>SECTION</b>	<b>DESCRIPTION OF TESTS CONDUCTED</b>
Overpressure	4.6.3	Equipment Identified as Category X. No testing performed
Temperature Variation	5.0	Equipment tested to Category A
Humidity	6.0	Equipment tested to Category C
Operational Shock and Crash Safety	7.0	Equipment tested to Category A
Vibration	8.0	Equipment tested to Category [U]
Explosion	9.0	Equipment identified as Category X. No testing performed
Waterproofness	10.0	Equipment tested to Category S
Fluids Susceptibility	11.0	Equipment identified as Category X. No testing performed
Sand and Dust	12.0	Equipment identified as Category X. No testing performed
Fungus	13.0	Equipment identified as Category F. No testing performed
Salt Spray	14.0	Equipment tested to Category S
Magnetic Effect	15.0	Equipment identified as Category X. No testing performed
Power Input	16.0	Equipment identified as Category X. No testing performed
Voltage Spike	17.0	Equipment identified as Category X. No testing performed
Audio Frequency Susceptibility	18.0	Equipment identified as Category X. No testing performed

CONDITIONS	SECTION	DESCRIPTION OF TESTS CONDUCTED
Induced Signal Susceptibility	19.0	Equipment identified as Category X. No testing performed
Radio Frequency Susceptibility	20.0	Equipment identified as Category X. No testing performed
Radio Frequency Emission	21.0	Equipment identified as Category X. No testing performed
Lighting Induced Transient Susceptibility	22.0	Equipment identified as Category X. No testing performed
Lighting Direct Effects	23.0	Equipment identified as Category X. No testing performed
Icing	24.0	Equipment identified as Category X. No testing performed
Electrostatic Discharge	25.0	Equipment identified as Category X. No testing performed
Fire, Flammability	26.0	Equipment identified as Category X. No testing performed

Other Tests: None

REMARKS: \_\_\_\_\_  
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