

ENVIRONMENTAL QUALIFICATION FORM

NOMENCLATURE: 406 MHz ELT Antenna

TYPE/MODEL/PART NO.: AV-100

TSO NO.: C126a

MANUFACTURE'S SPECIFICATION AND/OR OTHER APPLICABLE SPECIFICATION: AV-100 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", SC-135

DATE TESTED: January- March 2012

CONDITIONS	SECTION	DESCRIPTION OF TESTS CONDUCTED
Temperature and Altitude	4.0	Equipment tested to Category [D2]
Low Temperature	4.5.1	
High Temperature	4.5.2 & 4.5.3	
In-Flight Loss of Cooling	4.5.4	Equipment Identified as Category X
Altitude	4.6.1	
Decompression	4.6.2	N/A
Overpressure	4.6.3	N/A
Temperature Variation	5.0	Equipment tested to Category S2
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 S, Curve Y

CONDITIONS	SECTION	DESCRIPTION OF TESTS CONDUCTED
Explosion	9.0	Equipment identified as Category X. No tests performed
Waterproofness	10.0	Equipment tested to Category S
Fluids Susceptibility	11.0	Equipment identified as Category X. No tests performed
Sand and Dust	12.0	Equipment tested to Category D
Fungus	13.0	Equipment identified as Category X. No tests performed
Salt Fog	14.0	Equipment tested to Category S
Magnetic Effect	15.0	Equipment identified as Category X. No tests performed
Power Input	16.0	Equipment identified as Category X. No tests performed
Voltage Spike	17.0	Equipment identified as Category X. No tests performed
Audio Frequency Susceptibility	18.0	Equipment identified as Category X. No tests performed
Induced Signal Susceptibility	19.0	Equipment identified as Category X. No tests performed
Radio Frequency Susceptibility	20.0	Equipment identified as Category X. No tests performed
Radio Frequency Emission	21.0	Equipment identified as Category X. No test required
Lighting Induced Transient Susceptibility	22.0	Equipment identified as Category X. No tests performed
Lighting Direct Effects	23.0	Equipment identified as Category X. No tests performed

CONDITIONS	SECTION	DESCRIPTION OF TESTS CONDUCTED
Icing	24.0	Equipment identified as Category A.
Electrostatic Discharge	25.0	Equipment identified as Category X. No tests performed
Fire, Flammability	26.0	Equipment identified as Category X. No tests performed

Other Tests:

The "Flame Test" of RTCA / DO-204A, paragraph 2.3.7.1 was performed in lieu of the "Fire, Flammability" test of RTCA / DO-160F.

REMARKS: _____
