

SPECIFICATIONS FOR ANTENNA MA-WS56-3OR

Specifications:

Electrical

Frequency Band	5.47 – 5.875 GHz
Gain	23dBi nom
Polarization	Dual: Vertical & Horizontal
3 dB Beam Width (H/E-Plane), typical.	7-9°
Side Lobes Performance	ETSI TS3
Front to Back ratio , (min)	35 dB
Cross Polarization	15 dB
Impedance	50 Ohms
VSWR, (max.)	1.5 : 1
Power Handling (max)	5 W
DC Grounding	The antenna structure shall provide a dc path to ground for each polarisation to prevent both static build up and high currents in the connectors in the event of a nearby lightning strike
Squint	The antenna pattern shall not squint with frequency, ie the antenna must not comprise end-fed arrays.

Mechanical and Environmental

Dimensions	370x370x40 mm
Mounting Bracket	None
Mechanical Interface	The Antenna shall mate with the Orthogon Systems Gemini and Spectra Radio equipment. The lower edge of the antenna shall fit flush with the edge of the casting and shall be centrally located in the horizontal plane.
Connector	2 X SMA Right Angle,
Radome	Plastic, UV protected
Back Plate	Aluminum (with protective coating on all exposed surfaces to prevent corrosion in a global outdoor deployment scenario)
Product labelling	According to figures 3 and 4
Weight	<2.5 Kg
Vibration & Shock	IEC 60721-3-4

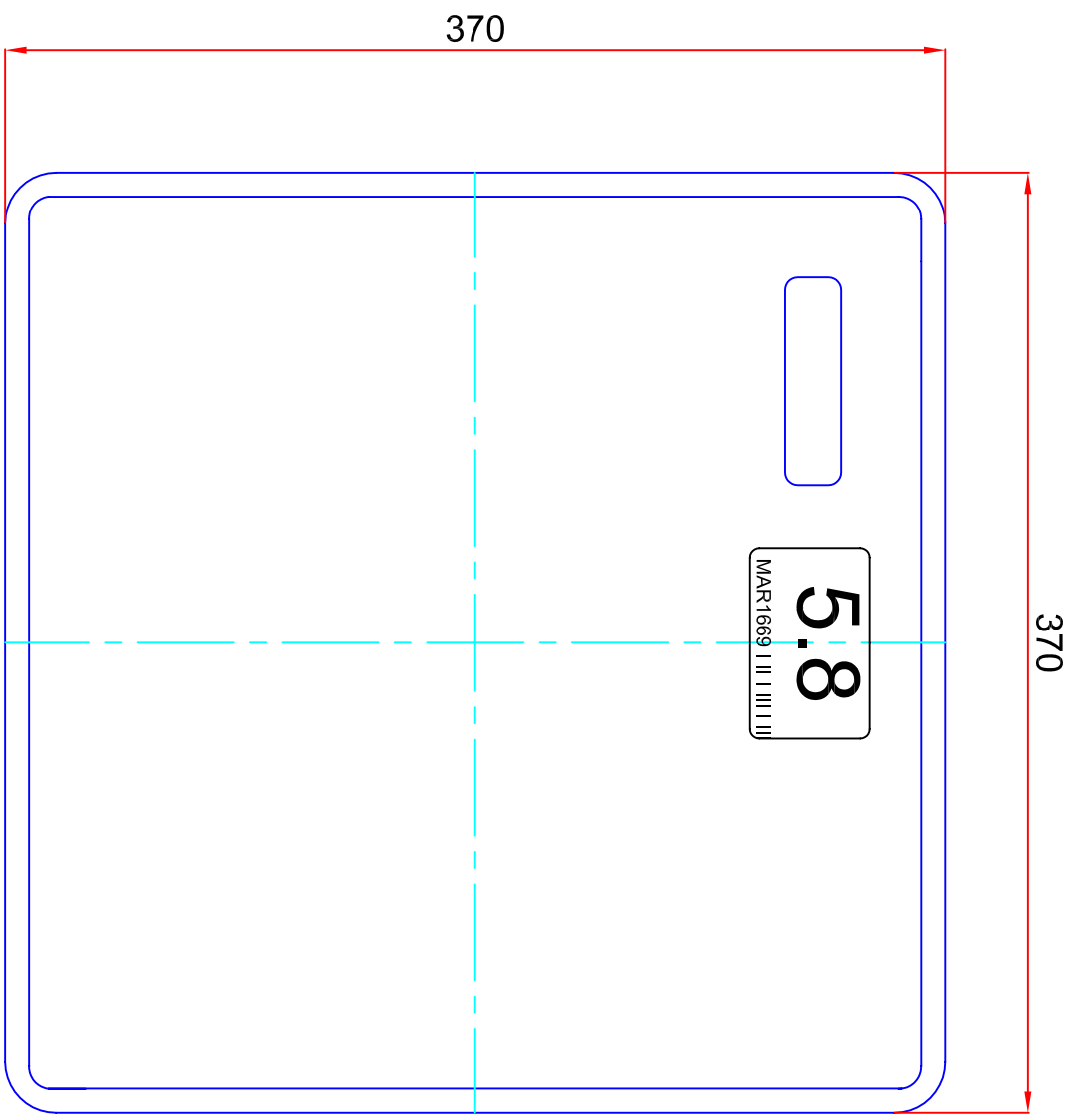
Temperature (operating/storage)	-40°C to +70°C
Water tightness	IP67
Wind Loading	Operational at ≤ 160 kph Survival at ≤ 220 kph
Ice Loading	Gain reduction < 3 dB with 10 mm ice on whole of antenna surface Gain reduction < 6 dB with 20 mm ice on whole of antenna surface No damage with 25 mm ice build up.

APPROVED BY QA MARS 11/02/07
APPROVED BY GM MARS 11/02/07

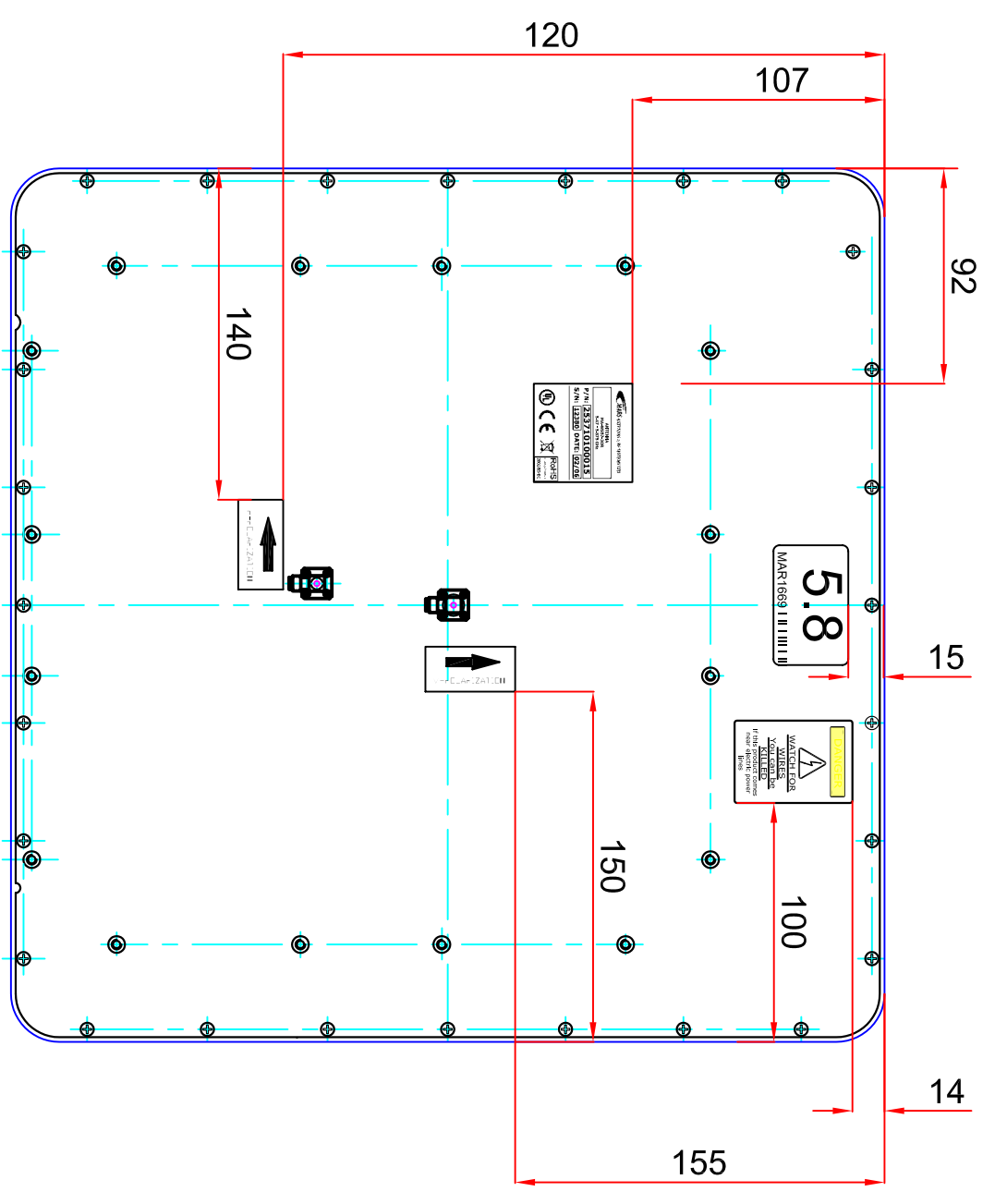
PART MUST BE FREE OF ALL SCRATCHES AND BURS.
 UNLESS OTHERWISE SPECIFIED REMOVE SHARP EDGES
 BY FILED FINISH 2445° DR. FINISH R4. THIS PART
 SHOULD BE FINISHED SO AS TO AVOID DAMAGE DURING TRANSPORT.
 MARS PROPRIETARY INFORMATION

CHNG/REV DESCRIPTION ECN No. DATE APPVD

FRONT VIEW



BACK VIEW



NAME	DATE	SCALE	UNIT TO SCALE	 ANTI-MA-WSS7-3DR GENERAL VIEW
DRAWN		UNLESS OTHERWISE SPECIFIED		
DESIGN		TOLERANCES & SURFACE AREAS		
CHECKED		GENERAL =		
APPROVED		BETWEEN HOLES =		
MATERIAL		HOLES =		
		AND =		
		SURFACE RD. =		
UNLESS OTHERWISE SPECIFIED				
DIMENSIONS ARE IN MM.				
QTY	FILE NAME	SIZE	REF. DWG. NUMBER	
1		A3		

