

ECO800802

Tri-sector Camouflage Antenna

2L 8M 0H



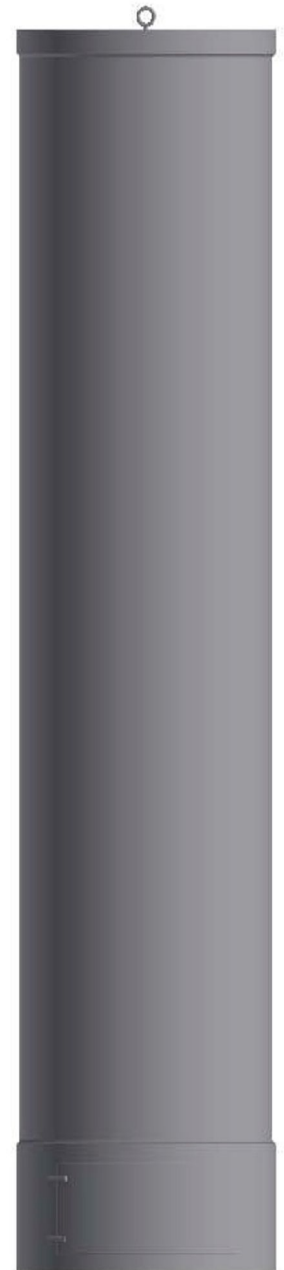
GENERAL INFORMATION (Preliminary)

Type No.	ECO800802
-----------------	------------------

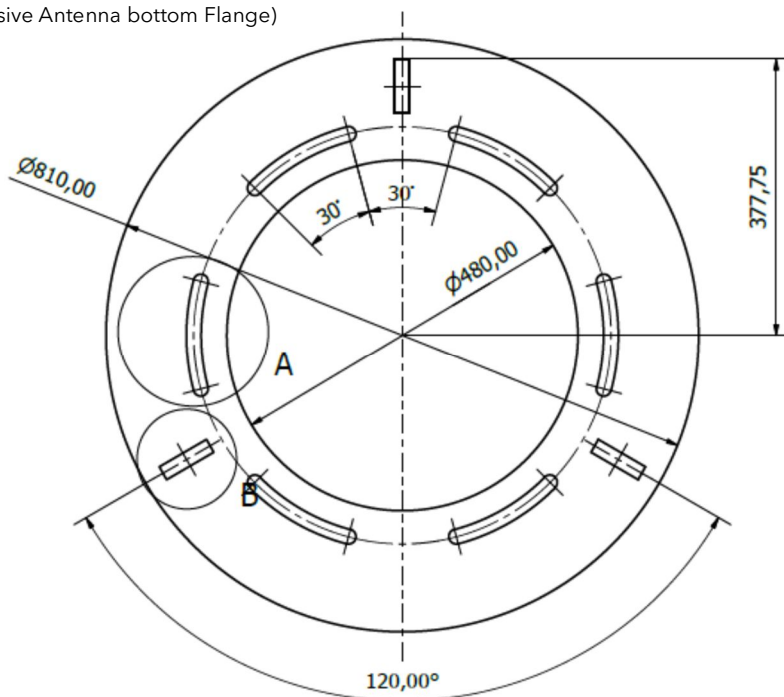
Short Description

Passive Tri-sector antenna enclosure composed by 3 panel Antennas integrated and Electrically adapted to a cylindrical enclosure for camouflage on urban Landscape.

Frequency Range	2x698-960/ 2x1427-2690/ 2x2300-2690/ 4x3300-3800Mhz
Passive Antenna	3x 800442802 (Ericsson)
N° Ports	36 x 4.3-10f + 3x MQ4m + 3x MQ5m
Weight	230kgs approx.
Length incl. Service Area	2441mm
Diameter	800mm
Colour	RAL 9003 (White)
Variable Azimuth	±10° per sector
Total Windload	1446N at 150km/h
Radome material	Fiberglass (Passive)
Structure material	Galvanised Steel



(Detail of Passive Antenna bottom Flange)



ECO800802
Tri-sector Camouflage Antenna
2L 8M 0H



TECHNICAL INFORMATION (Preliminary)

Type No.	ECO800802
-----------------	------------------

R1	R2	P1-P4	Y1	Y2	Y3	Y4
698-960	698-960	3300-3800	2300-2690	1427-2690	2300-2690	1427-2690

	R1	R1
Frequency Range (Mhz)	698-960	698-960
Gain at Mid Tilt (dBi)	15.1	15.1
Azimuth Beamwidth (°)	60±7	60±7
Elevation Beawidth (°)	11.6±1.0	11.6±1.0
Electrical Downtilt (°)	2.5-11.5°	
Isolation (dB)	>25	
Passive Intermodulation (dBc)	<-153 (2x 43dBm carrier)	
VSWR	<1.5	

	Y1	Y3
Frequency Range (Mhz)	2300-2690	2300-2690
Gain at Mid Tilt (dBi)	15.8	16.0
Azimuth Beamwidth (°)	63±4	62±4
Elevation Beawidth (°)	8.9±0.9	8.0±0.5
Electrical Downtilt (°)	2-12°	
Isolation (dB)	>25	
Passive Intermodulation (dBc)	<-153 (2x 43dBm carrier)	
VSWR	<1.5	

	Y2	Y4
Frequency Range (Mhz)	1427-2690	1427-2690
Gain at Mid Tilt (dBi)	15.8	16.0
Azimuth Beamwidth (°)	63±4	62±4
Elevation Beawidth (°)	9.9±0.9	8.3±0.9
Electrical Downtilt (°)	2-12°	
Isolation (dB)	>25	
Passive Intermodulation (dBc)	<-153 (2x 43dBm carrier)	
VSWR	<1.5	

ECO800802
Tri-sector Camouflage Antenna
2L 8M 0H



TECHNICAL INFORMATION (Preliminary)

	P1 P2 P3 P4	
	3300-3600	3600-3800
Frequency Range (Mhz)	3300-3600	3600-3800
Gain at Mid Tilt (dBi)	15.2	15.1
Azimuth Beamwidth (°)	75±5	75±5
Elevation Beawidth (°)	5.7±0.4	5.4±0.4
Electrical Downtilt (°)	2-12°	
Isolation (dB)	>22	
Passive Intermodulation (dBc)	<-153 (2x 43dBm carrier)	
VSWR	<1.5	

	Broadcast Beam at Mid Tilt	
	3300-3600	3600-3800
Frequency Range (Mhz)	3300-3600	3600-3800
Azimuth 3dB Beamwidth (°)	69	66
Gain (dB)	15.5	15.3
Gain roll-off at sector Edge (dB)	11	12
Cross Polar Ratio 0° (dB)	>14	
Front to Back Ratio (dB)	>24	

	Service Beam at Mid Tilt	
0° Direct Beam Gain (dB)	20.2	20.4
0° Direction Beam Horizontal 3dB Beam Width (°)	24	22
0° Direction Beam Horizontal SLS (dB)	>14.5	>16
0° Direction Beam Cross Polar Ratio (dB)	>17	>14
0° Direction Beam Front to Back Ratio (dB)	>29	>27
±30° Direct Beam Gain (dB)	19	19.4
±30° Direction Beam Horizontal 3dB Beam Width (°)	27	23

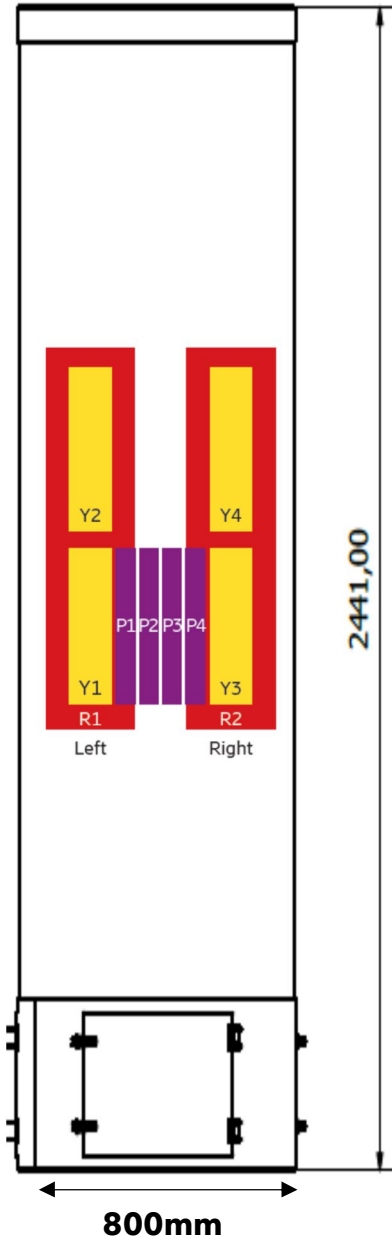
	Calibration and Electrical Parameters
Coupling factor between one antenna port and cal Port (dB)	-26 ±1
Max. Amplitude Tolerance from calibration port to input ports (dB)	±1
Max phase tolerance cal network (°)	±10

(All datas are subject to change without prior notice)

MECHANICAL INFORMATION

CORRELATION TABLE

Frequency range	Array	Connector / Ports
698-960 Mhz	R1	1-2
698-960 Mhz	R2	3-4
2300-2690 Mhz	Y1	5-6
1427-2690 Mhz	Y2	7-8
2300-2690 Mhz	Y3	9-10
1427-2690 Mhz	Y4	11-12
3300-3800 Mhz	P1	13.1-14.1
3300-3800 Mhz	P2	13.2-14.2
3300-3800 Mhz	P3	13.3-14.3
3300-3800 Mhz	P3	13.4-14.4



LAYOUT OF INTERFACE

