

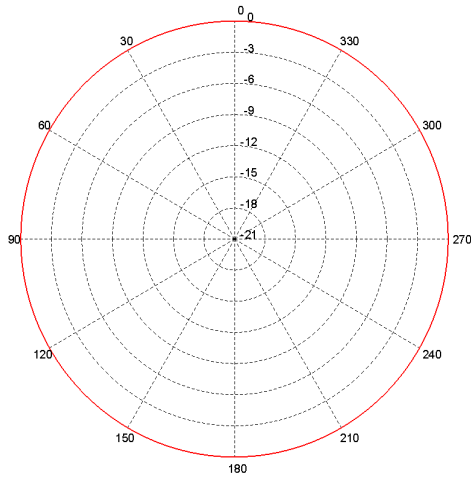
D.M.E. Omnidirectional Antenna

ATC – S08H 960-1215 MHz

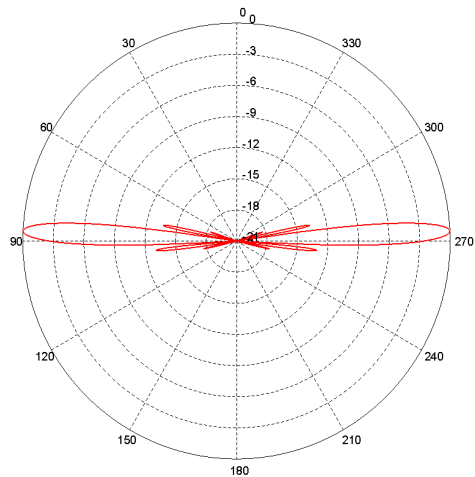


Antenna consists of 10 half-wave dipoles, phase-feeding lines, red dual obstruction lights, and lighting protection system. The horizontal pattern is obtained by omnidirectional radiation pattern of each dipole, the vertical pattern is realized by right feeding and location of radiation elements. The top of antenna is equipped with dual LED obstruction light with power supply and opto switch . Monitor probes are located inside the fiberglass radome being supporting structure of the antenna. All feedlines additional are located inside the brass tube. Antenna is designed for ground - to - air D.M.E. systems , it can be optionally equipped with LED lights and antifreeze system.

ELECTRICAL	
Gain	12.0 dBi
Horizontal pattern	Omnidirectional , deviation better +/- 1,5 dB
Vertical pattern uptilt	3° +/- 0,5°
Frequency range	960 - 1215 MHz
Bandwidth	255 MHz
VSWR	<1,5
Impedance	50 Ω
Maximum Power	450 W, power peak 4,5 kW ICAO recommendation
Input antenna, monitors	N female
Obstruction light	LED min 33 cd with Opto Switch
Decoupling with antenna and monitors probe	25 +/- 2 dB
MECHANICAL	
Connectors	N,
Radom material	Fiberglass tube , 100,0 mm diameter
Total height	2,9 m with obstruction lights
Weight	18 kg with obstruction lights
Ligtning protection	All metal parts are DC grounded
Colour and finish	White polyurethane paint
CLIMATIC CONDITIONS	
Range of the temperature	-40°C ÷ +80°C
Humidity	≤ 100% at +40°C
Wind Speed	160 km/h, 200 km/h with antifreeze system



Horizontal



Vertical

Normalized radiation pattern, f = 1090MHz



Dimensions of the ATC S08H,
typical mounting way on the support


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