

WATTS ANTENNA COMPANY

For A Proven Better Image!

MODEL GP5-A1 DIRECTIONAL IMAGE GLIDE PATH ANTENNA CATEGORY I/II/III INSTRUMENT LANDING SYSTEM (FOR SMALLER CRITICAL AND SENSITIVE AREAS)



The Proof Is In The Critical Area Computations

Computed ILS Glide Slope Critical Area for an Airbus A380 Parallel to the Runway Using the Watts Model GP5-A1 Beam Steered Directional Antenna in M-Array Configuration, also referred to as Capture Effect (CE). This Figure Shows the Addition Critical Area Reduction Achieved by Mechanically Rotating the Already Canted Beam by an Additional 6.0 Degrees Toward the Runway.

The Dashed Line on the Plot Represents a Taxiway Offset Distance Where the Tower to Wingtip Separation is Only 5 Meters (16.4 Feet). The Black Triangular Shape Represents the Location of the Glide Slope Tower.



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Model GP5-A1

International Orange and White

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.... World Leader In Advanced ILS Antennas

Directional Beam-Steered Image Glide Slope Antenna

Antenna Type: Nomenclature: Color: **Coating: Frequency Range: Polarization: Radome Type: Reflector Type: Maximum Power:** Input: **Pattern Type:** Gain: **Beam Displacement:** -3 dB Beamwidth: Sidelobe Suppression: Front-to-Back Ratio: **Input Impedance: VSWR: Distribution Loss: Distribution Isolation: Monitor Impedance: Monitor Output: Monitor Coupling: Temp Range:** Lateral Thrust: Max. Wind Velocity: Length: **Height:** Weight: **Heaters:** NOTE:

Icephobic 329.0 to 335 MHz Horizontal Full Cover-Fiberglass 90 Degree Trough and Corner 50w CW Type N Female Connector Asymmetric >13 dBd > 6 Degrees Nominal * See Note 23 Degrees Nominal 25 dB Nominal >21 dB Nominal 50 Ohms Nominal < 1.25 to 1 < 1 dB> 22 dB Between Ports 50 Ohms Nominal Type N Female Connector > 20 dB Nominal -55 to +75 Degrees C 1450 N at 160 km/h 200 km/h (incl. 1/2" radial ice) 2.69 Meters (106 Inches) 79 CM (31 Inches) 34.02 KG Approximate (75 lbs) Not Needed Up To An Additional 6 Degree Physical Beam Displacement In Either Direction With Shim Kit

Dipole System: Aluminum.

Material: Reflector: Aluminum w/ Icephobic Coating (orange). Radome: Fiberglass (white). All Screws and Nuts: Stainless Steel. Scope of Supply: Antennas w/ Mounting Hardware, Shim Kit & Instruction Manual. **Mounting Hardware:** B-Line 304 Stainless Steel Mounting Struts and Components. **Lightning Protection:** Antenna is DC Grounded Including Inner Conductors.