

PAS69278 698-960 MHz/1710-2700 MHz Pole Mount Directional Panel Antenna



MULTI-BAND DIRECTIONAL PANEL ANTENNA

The PAS69278 antenna is a wide band dual port directional panel antenna with slant 45 polarization that covers the domestic LTE700/Cellular/PCS/AWS/MDS and global GSM900/GSM1800/UMTS/LTE2600 bands. The antenna is ideal for both indoor and outdoor applications. It includes a UV stable radome enclosure that provides years of use without degradation to either mechanical properties or aesthetics.

FEATURES & BENEFITS **C**ROHS

- Applicable for both 3G and 4G solutions
- Domestic LTE 700 band and
- Global LTE 2600 band
- WiMax 2300/2500 bands
- Domestic Cellular and Global GSM
- Weatherproof UV stable radome

SPECIFICATIONS

TYPICAL ELECTRICAL SPECIFICATIONS

- Wall mounting hardware included (optional mast mount kit available)
- Conformance to RoHS

APPLICATIONS

- Wireless Terminal, Point-of-Sale, Machine to Machine,
- Automatic Meter Reading and Home Security

Average Efficiency698 – 960 MHz: 80% - 87%, 1700 – 2700 MHz: 60% - 85%3 dB Beamwidth (Vertical plane)698 – 960 MHz: 55° – 70°, 1700 – 2700 MHz: 50° – 80°3 dB Beamwidth (Horizontal plane)698 – 960 MHz: 55° – 70°, 1700 – 2700 MHz: 50° – 80°F/B Ratio , Co-pol698 – 960 MHz: > 23 dB, 1700 – 2700 MHz: > 17 dBCross polarization, Axial698 – 960 MHz: > 25 dB, 1700 – 2700 MHz: > 17 dB, typical 23Isolation> 25 dBPolarizationSlant ± 450Nominal Impedance50 OhmsPower2 x 10 WattsRF ConnectorDual Type N femaleIP ClassIP55Environmental ConditionsETSI EN 300 019-2-4, class 4.1E.Mount StyleWall/Mast w/mounting hardware (Wall mount)Radome and Base PlasticUL94 V0 rated (UV resisted)Radome & Base color:White, Color code (SABIC) WH9B034Material Substance ComplianceROHS CompliantTemperature-40°C to +70°CDimensions295 x 295 x 82 mm	TYPICAL ELECTRICAL SPECIFICATIONS				
Gain $698 - 960$ MHz: $7.5 - 9.0$ dBi, $1700 - 2700$ MHz: $5.7 - 9.5$ dEAverage Efficiency $698 - 960$ MHz: $80\% - 87\%$, $1700 - 2700$ MHz: $60\% - 85\%$ 3 dB Bearwidth (Vertical plane) $698 - 960$ MHz: $55^\circ - 70^\circ$, $1700 - 2700$ MHz: $50^\circ - 80^\circ$ 3 dB Bearwidth (Horizontal plane) $698 - 960$ MHz: $55^\circ - 70^\circ$, $1700 - 2700$ MHz: $50^\circ - 80^\circ$ F/B Ratio , Co-pol $698 - 960$ MHz: > 23 dB, $1700 - 2700$ MHz: > 17 dBCross polarization, Axial $698 - 960$ MHz: > 23 dB, $1700 - 2700$ MHz: > 17 dBCross polarization, Axial $698 - 960$ MHz: > 25 dB, $1700 - 2700$ MHz: > 17 dB, typical 23Isolation > 25 dBPolarizationSlant ± 450 Nominal Impedance 50 OhmsPower 2×10 WattsRF ConnectorDual Type N femaleIP ClassIP55Environmental ConditionsETSI EN 300 019-2-4, class 4.1E.Mount StyleWall/Mast w/mounting hardware (Wall mount)Radome and Base PlasticUL94 V0 rated (UV resisted)Radome & Base color:White, Color code (SABIC) WH9B034Material Substance ComplianceROHS CompliantTemperature -40° °C to $+70^\circ$ CDimensions $295 \times 295 \times 82$ mm	Frequency	698 – 960 MHz / 1710 – 2700 MHz			
Average Efficiency698 – 960 MHz: 80% - 87%, 1700 – 2700 MHz: 60% - 85%3 dB Beamwidth (Vertical plane)698 – 960 MHz: 55° – 70°, 1700 – 2700 MHz: 50° – 80°3 dB Beamwidth (Horizontal plane)698 – 960 MHz: 55° – 70°, 1700 – 2700 MHz: 50° – 80°F/B Ratio , Co-pol698 – 960 MHz: 52° – 70°, 1700 – 2700 MHz: > 17 dBCross polarization, Axial698 – 960 MHz: > 23 dB, 1700 – 2700 MHz: > 17 dBPolarization> 25 dBPolarization> 25 dBPolarizationSlant ± 450Nominal Impedance50 OhmsPower2 x 10 WattsRF ConnectorDual Type N femaleIP ClassIP55Environmental ConditionsETSI EN 300 019-2-4, class 4.1E.Mount StyleWall/Mast w/mounting hardware (Wall mount)Radome and Base PlasticUL94 V0 rated (UV resisted)Radome & Base color:White, Color code (SABIC) WH9B034Material Substance ComplianceROHS CompliantTemperature-40°C to +70°CDimensions295 x 295 x 82 mm	VSWR	2.0:1 Max.			
3 dB Beamwidth (Vertical plane)698 – 960 MHz: 55° – 70°, 1700 – 2700 MHz: 50° – 80°3 dB Beamwidth (Horizontal plane)698 – 960 MHz: 55° – 70°, 1700 – 2700 MHz: 50° – 80°F/B Ratio , Co-pol698 – 960 MHz: > 23 dB, 1700 – 2700 MHz: > 17 dBCross polarization, Axial698 – 960 MHz: > 25 dB, 1700 – 2700 MHz: > 17 dB, typical 23Isolation> 25 dBPolarizationSlant ± 450Nominal Impedance50 OhmsPower2 x 10 WattsRF ConnectorDual Type N femaleIP ClassIP55Environmental ConditionsETSI EN 300 019-2-4, class 4.1E.Mount StyleWall/Mast w/mounting hardware (Wall mount)Radome and Base PlasticUL94 V0 rated (UV resisted)Radome & Base color:White, Color code (SABIC) WH9B034Material Substance ComplianceROHS CompliantTemperature-40°C to +70°CDimensions295 x 295 x 82 mm	Gain	698 – 960 MHz: 7.5 – 9.0 dBi, 1700 – 2700 MHz: 5.7 – 9.5 dBi			
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Isolation> 25 dBPolarizationSlant ± 450Nominal Impedance50 OhmsPower2 x 10 WattsRF ConnectorDual Type N femaleIP ClassIP55Environmental ConditionsETSI EN 300 019-2-4, class 4.1E.Mount StyleWall/Mast w/mounting hardware (Wall mount)Radome and Base PlasticUL94 V0 rated (UV resisted)Radome & Base color:White, Color code (SABIC) WH9B034Material Substance ComplianceROHS CompliantTemperature-40°C to +70°CDimensions295 x 295 x 82 mm	F/B Ratio , Co-pol	698 – 960 MHz: > 23 dB, 1700 – 2700 MHz: > 17 dB			
PolarizationSlant ± 450Nominal Impedance50 OhmsPower2 x 10 WattsRF ConnectorDual Type N femaleIP ClassIP55Environmental ConditionsETSI EN 300 019-2-4, class 4.1E.Mount StyleWall/Mast w/mounting hardware (Wall mount)Radome and Base PlasticUL94 V0 rated (UV resisted)Radome & Base color:White, Color code (SABIC) WH9B034Material Substance ComplianceROHS CompliantTemperature-40°C to +70°CDimensions295 x 295 x 82 mm	Cross polarization, Axial	698 – 960 MHz: > 25 dB, 1700 – 2700 MHz: > 17 dB, typical 23 dB			
Nominal Impedance50 OhmsPower2 x 10 WattsRF ConnectorDual Type N femaleIP ClassIP55Environmental ConditionsETSI EN 300 019-2-4, class 4.1E.Mount StyleWall/Mast w/mounting hardware (Wall mount)Radome and Base PlasticUL94 V0 rated (UV resisted)Radome & Base color:White, Color code (SABIC) WH9B034Material Substance ComplianceROHS CompliantTemperature-40°C to +70°CDimensions295 x 295 x 82 mm	Isolation	> 25 dB			
Power2 x 10 WattsRF ConnectorDual Type N femaleIP ClassIP55Environmental ConditionsETSI EN 300 019-2-4, class 4.1E.Mount StyleWall/Mast w/mounting hardware (Wall mount)Radome and Base PlasticUL94 V0 rated (UV resisted)Radome & Base color:White, Color code (SABIC) WH9B034Material Substance ComplianceROHS CompliantTemperature-40°C to +70°CDimensions295 x 295 x 82 mm	Polarization	Slant ± 45o			
RF ConnectorDual Type N femaleIP ClassIP55Environmental ConditionsETSI EN 300 019-2-4, class 4.1E.Mount StyleWall/Mast w/mounting hardware (Wall mount)Radome and Base PlasticUL94 V0 rated (UV resisted)Radome & Base color:White, Color code (SABIC) WH9B034Material Substance ComplianceROHS CompliantTemperature-40°C to +70°CDimensions295 x 295 x 82 mm	Nominal Impedance	50 Ohms			
IP ClassIP55Environmental ConditionsETSI EN 300 019-2-4, class 4.1E.Mount StyleWall/Mast w/mounting hardware (Wall mount)Radome and Base PlasticUL94 V0 rated (UV resisted)Radome & Base color:White, Color code (SABIC) WH9B034Material Substance ComplianceROHS CompliantTemperature-40°C to +70°CDimensions295 x 295 x 82 mm	Power	2 x 10 Watts			
Environmental ConditionsETSI EN 300 019-2-4, class 4.1E.Mount StyleWall/Mast w/mounting hardware (Wall mount)Radome and Base PlasticUL94 V0 rated (UV resisted)Radome & Base color:White, Color code (SABIC) WH9B034Material Substance ComplianceROHS CompliantTemperature-40°C to +70°CDimensions295 x 295 x 82 mm	RF Connector	Dual Type N female			
Mount StyleWall/Mast w/mounting hardware (Wall mount)Radome and Base PlasticUL94 V0 rated (UV resisted)Radome & Base color:White, Color code (SABIC) WH9B034Material Substance ComplianceROHS CompliantTemperature-40°C to +70°CDimensions295 x 295 x 82 mm	IP Class	IP55			
Radome and Base PlasticUL94 V0 rated (UV resisted)Radome & Base color:White, Color code (SABIC) WH9B034Material Substance ComplianceROHS CompliantTemperature-40°C to +70°CDimensions295 x 295 x 82 mm	Environmental Conditions	ETSI EN 300 019-2-4, class 4.1E.			
Radome & Base color:White, Color code (SABIC) WH9B034Material Substance ComplianceROHS CompliantTemperature-40°C to +70°CDimensions295 x 295 x 82 mm	Mount Style	Wall/Mast w/mounting hardware (Wall mount)			
Material Substance ComplianceROHS CompliantTemperature-40°C to +70°CDimensions295 x 295 x 82 mm	Radome and Base Plastic	UL94 V0 rated (UV resisted)			
Temperature-40°C to +70°CDimensions295 x 295 x 82 mm	Radome & Base color:	White, Color code (SABIC) WH9B034			
Dimensions 295 x 295 x 82 mm	Material Substance Compliance	ROHS Compliant			
	Temperature	-40°C to +70°C			
	Dimensions	295 x 295 x 82 mm			
Weight 1.46 kg	Weight	1.46 kg			

CABLES AND CONNECTORS

PART NUMBER	CABLE LENGTH	CONNECTOR
PAS69278-91NF	Dual 91 cm (36")	Dual Type N- Female
PAS69278-FNF	N/A (Direct connect)	Dual Type N- Female

Americas: +1.847 839.6907 IAS-AmericasEastSales@lairdtech.com

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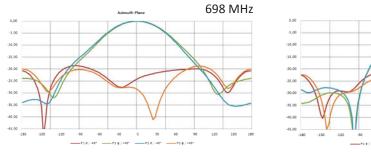
Asia: +86.21.5855.0827.127 IAS-AsiaSales@lairdtech.com

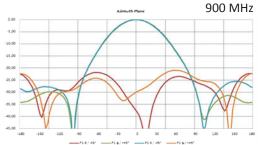
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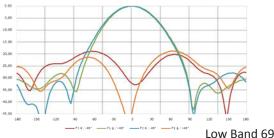
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TYPICAL RADIATION PATTERNS

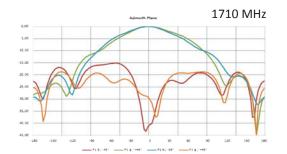


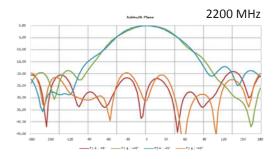


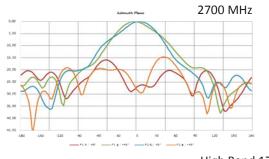












High Band 1710-2700 MHz

ANT-DS-PAS69278 090414

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