



Patent Pending PAS69278P





Close-up of connector & bracket system



Ontional mounting kit Part Number: HKIT-PAx-001

Americas: +1.847.839.6907 IAS-AmericasEastSales@lairdtech.com

Europe: +44.1628.858941 IAS-EUSales@lairdtech.com

Asia: +86.21.5855.0827.127 IAS-AsiaSales@lairdtech.com

www.lairdtech.com

PAS69278P 698-960 MHz/1710-2700 MHz 2- Port MIMO Pole Mount Low-PIM Directional Panel Antenna

MUTI-BAND LOW-PIM DIRECTIONAL PANEL ANTENNA

The Patent Pending PAS69278P antenna is a wide-band dual-port 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 the mechanical properties or aesthetics.

FEATURES **FEATURES**

- Applicable for 3G/4G, domestic LTE 700 band, Global LTE 2600 band, WiMax 2300/2500 band, domestic cellular and global GSM solutions
- Weatherproof UV stable radome
- Low Passive Intermodulation
- Conformance to RoHS

SPECIFICATIONS

APPLICATIONS

- In-building Wireless Networks
- 802.11b/g/n
- iDAS/oDAS
- Wireless Terminal, Point-of-Sale, Machine-to-Machine
- · Automatic meter reading and home security

PARAMETERS								
Frequency Bands, MHz	700	850	900	1800	1900	2100	2300	2600
Peak Gain, dBi (Typ)	8.7	9.0	9.8	7.5	8.5	8.4	9.5	9.7
Peak Gain, dBi (Max)	9.1	9.7	10.4	8.5	9.1	9.1	10.1	10.0
PAS69278P-91NF Additional Loss, dB	0.5	0.6	0.6	0.9	0.9	1.0	1.1	1.1
VSWR (Typ)	<2.0:1	<1.9:1	<1.7:1	<1.6:1	<1.5:1	<1.5:1	<1.6:1	<1.8:1
Isolation, dB (Typ)	<-38	<-40	<-40	<-30	<-30	<-30	<-30	<-30
3 dB Beamwidth, Vertical Plane	66° to 70°	61° to 65°	56° to 60°	57° to 84°	46° to 62°	46° to 72°	57° to 66°	48° to 55°
3 dB Beamwidth, Horizontal Plane	65° to 74°	59° to 65°	57° to 60°	56° to 85°	52° to 64°	52° to 82°	58° to 63°	48° to 54°
PIM, 3rd Order, 2 x 20W (Typ)	< -151 dBc			< -153 dBc				
CPR at Boresight (Typ)	25 dB			23 dB				
CPR at Boresight (Min)	25 dB			17 dB				
F/B Ration, Co-pol	21 dB							
Isolation, (Min)	-28 dB							
PIM, 3rd Order, 2 x 20W (Max)	< -150 dBc							
Maximum VSWR	2.0:1							
Nominal Impedance	50 Ω							
Max Input Power per port	50 Watts							
Polarization	Slant ± 45°							
RF Connector	Dual Type N female							
Radome & Base color	White, color code (SABIC) WH9B034							
Flammability Rating (Radome)	UL 94V0 Materials							
Dimensions (width x length x height)	295 x 295 x 82 mm (11.6" x 11.6" x 3.2")							
Weight	1.46 kg (3.2 lbs)							
Storage Temperature	-40°C to 85°C (-40° F to 185° F)							
Operational Temperature	-30°C to 70°C (-22°F to 158°F)							
Environmental Conditions	ETSI EN300 019-2-4, class 4.1E.							
Wind Rating	150 km/hr (93 mph)							
Ingress Protection	PAS69278P-FNF model only for outdoor IP55							
Material Substance Compliance	RoHS Compliant							



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SPECIFICATIONS

MODEL NUMBER	CABLE LENGTH	CONNECTOR
PAS69278P-FNF	NA (Direct Connect)	Dual Type N Female
PAS69278P-91NF	91 cm, (36"), cable	Dual Type N Female
PAS69278P-30D41F	30 cm, (12"), cable	Dual Type 4.1-9.5 Female
PAS69278P-30D43F	30 cm, (12"), cable	Dual Type 4.3-10 Female

698 MHz

ANTENNA PATTERNS





Horizontal Plane



880 MHz

Vertical Plane



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960 MHz

1710 MHz

ANTENNA PATTERNS





Horizontal Plane

30

150

30

150

60

120

90

60

90

120

10 11

١Ò

-5

-10 -15

20

330

210

330

210

300

240

270

300

240

270





Horizontal Plane

0

10 |||

-10

-15

20

180

-Port 1 ---- Port 2

Port 1 — Port 2

180







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ANTENNA PATTERNS



2170 MHz

2700 MHz

Vertical Plane





Vertical Plane

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