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Laird CONNECTIVITY

PAS69278P

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





Patent-pending PAS69278P

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 AND BENEFITS

- 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

ELECTRICAL SPECIFICATIONS								
Operating Frequency (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 - Avg	<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, dBc (Typ)	< -151			< -153				
CPR at Boresight, dB (Typ)	25			23				
CPR at Boresight, dB (Min)	25			17				
F/B Ration, Co-pol (dB)	21							
VSWR – Max	2.0:1							
PIM - 2x20W (dBc)	< -150							
Isolation – Min (dB)	-28							
Nominal Impedance (Ohms)	50							
Max Input Power Per Port - Ambient 25°C (W)	50							
Polarization	Slant ± 45°							

MECHANICAL SPECIFICATIONS	
Dimensions – mm (inches)	295 x 295 x 82 (11.6 x 11.6 x 3.2)
Weight – kg (lbs.)	1.46 (3.2)
Radome Material and Base Color	White, color code (SABIC) WH9B034
RF Connector	Dual Type N female

ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature - °C (°F)	-30 to 70°C (-22 to 158°F)
Storage Temperature – °C (°F)	-40 to 85°C (-40 to 185°F)
Environmental Conditions	ETSI EN300 019-2-4, class 4.1E
Wind Rating – km/hr (mph)	150 (93)
Ingress Protection Rating	PAS69278P-FNF model only for outdoor IP55
Flammability Rating	UL 94V0 Materials
Material Substance Compliance	RoHS

CONFIGURATION

PART 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

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MOUNTING OPTIONS



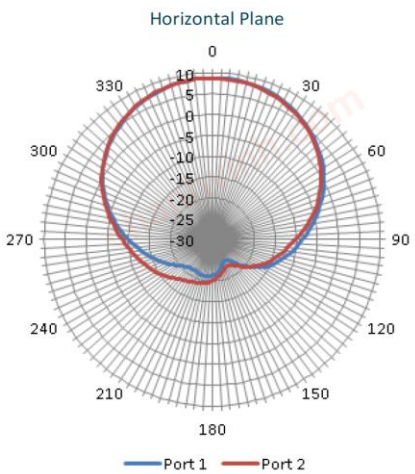
Close-up of connector and bracket system

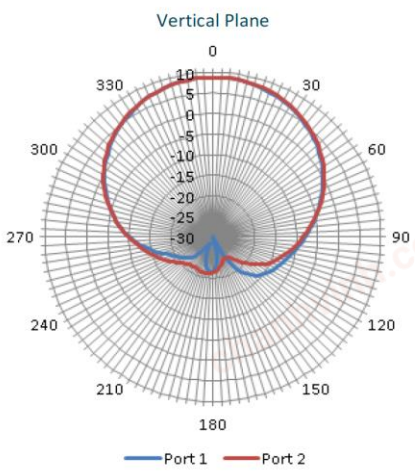


Optional mounting kit
Part Number: HKIT-PAx-001

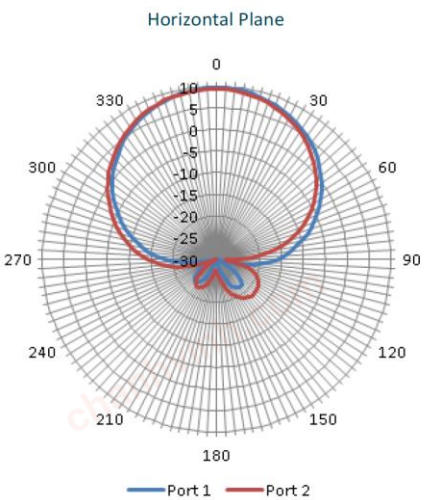
RADIATION PATTERNS

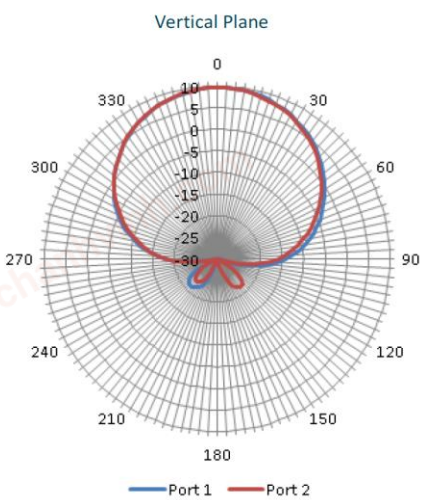
698 MHz





880 MHz

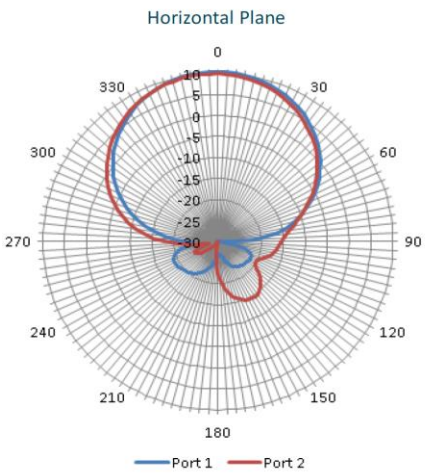


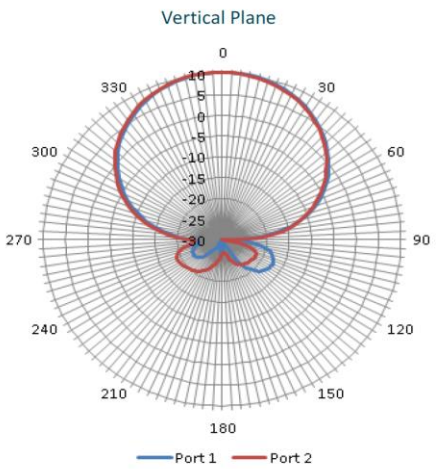


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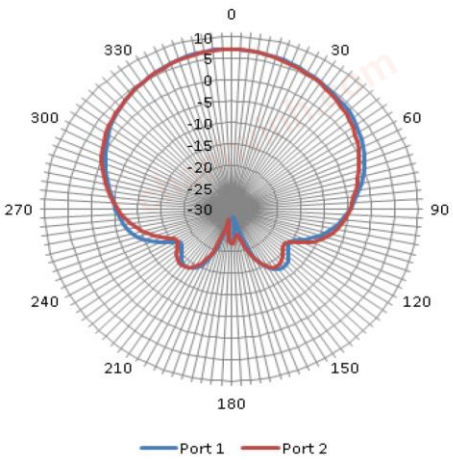
RADIATION PATTERNS (continued)

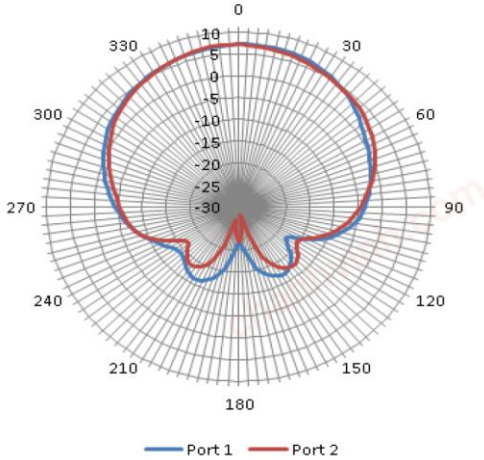
960 MHz



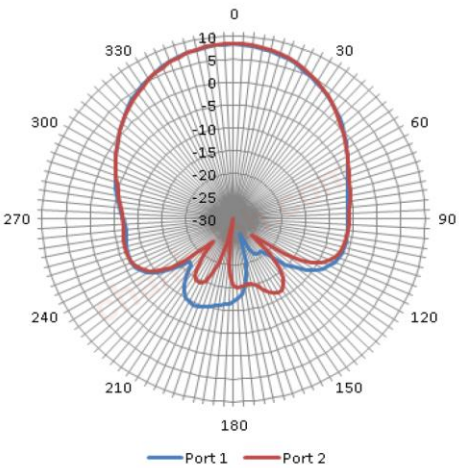


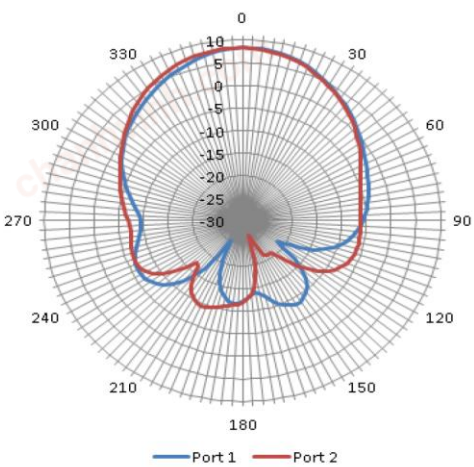
1710 MHz





1950 MHz



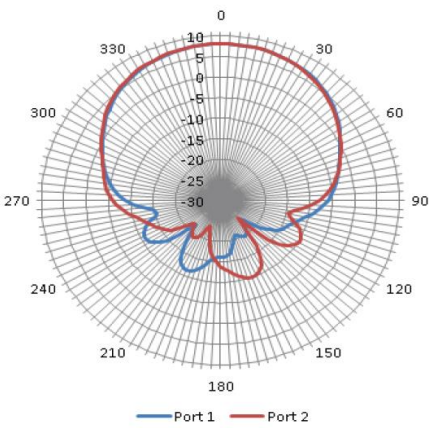


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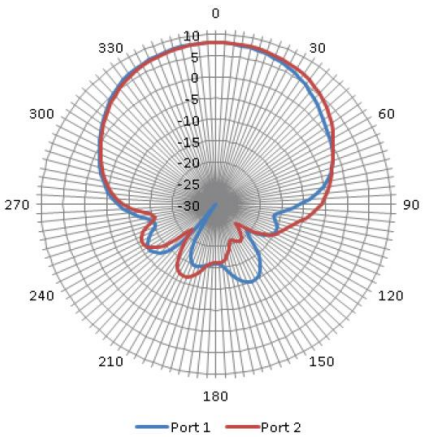
RADIATION PATTERNS (continued)

2170 MHz

Horizontal Plane

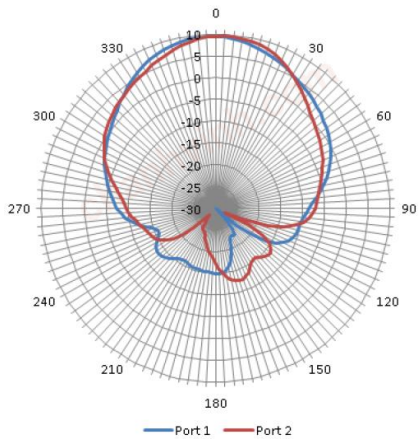


Vertical Plane

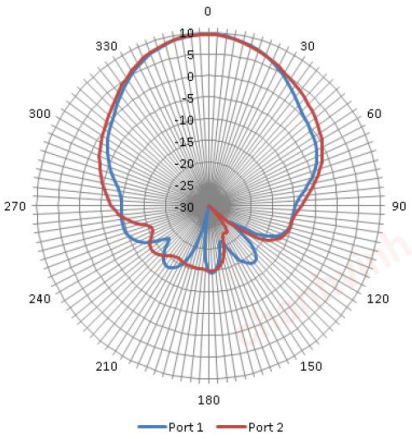


2700 MHz

Horizontal Plane



Vertical Plane



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RoHS

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