

GPS AND NAVSTAR

For hemispherical coverage, **GPS**, and NAVSTAR applications, Antenna Research offers the **PAS series** microstrip patch antennas and the **HAS series** Helical antennas. **GPS** antennas can be utilized with or without a conductive mounting surface. **NAVSTAR** and **GPS** antennas are available at L1 and L2 frequencies. A special feed design, for **PAS series GPS** antennas, makes them ideally suited for rugged military and commercial applications. All antennas are designed to maintain stable electrical performance when subjected to temperature humidity, rain, wind and ice. Several **PAS** and **HAS** antennas meet or exceed environmental conditions specified in MIL-E-5400 for use with military systems or ARINC743 for use on commercial and business aircrafts.

While microstrip patch antennas are low profile and lightweight, **HAS series** antennas are ideal when full hemispherical coverage (including the coverage at the horizon) is critical. RHCP is standard for these antennas.



PAS-1575

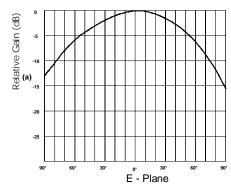
SPECIFICATIONS: GLOBAL POSITIONING SYSTEM (GPS) ANTENNAS

Fax: 301-937-2796

		PAS-1575	PAS-1575/DL	PAS-1227	PAS-1227/DL	HAS-1575
FREQUENCY (MHZ)		1575.4 (L1)	1575	1227.6 (L2)	1227	1575.4 (L1)
BANDWIDTH (MHz)		30	30	25	30	30
		5 dBic at Zenith (0°)	5 dBil at Zenith (0°)	5 dBic at Zenith(0°)	5 dBil at Zenith (0°)	5 dBic at 0º
Gain		0 dBic 75°	0 dBic 75º	0 dBic 75°	0 dBil 75°	0 dBic 90°
		-2 dBic, 75 - 85°	-2 dBic, 75 - 85°	-2 dBic, 75 - 85°	-2 dBil, 75 - 85°	-2 dBic, 100°
VSWR		1.5 : 1	1.5 : 1	1.5 : 1	1.5 : 1	1.5 : 1
Polarization		RHCP*	Dual Linear	RHCP*	Dual Linear	RHCP*
TYPE		Patch	Patch	Patch	Patch	Helical
SIZE (D	IA. Х Н)	5" x 0.5"	5" x 0.5"	5" x 0.5"	5" x 0.5"	1.25" x 3"
AXIAL RATIO AT ZENITH		<3 dB	N/A	<3 dB	N/A	2 dB
CONNECTOR		SMA	SMA	SMA	SMA	SMA
PATTERN:	AZIMUTH	Omnidirectional	Omnidirectional	Omnidirectional	Omnidirectional	Omnidirectional
	ELEVATION	Hemispherical	Hemispherical	Hemispherical	Hemispherical	Hemispherical

^{*} Left Hand circular polarization optional

PAS-1575/DL, RADIATION PATTERN FOR E & H PLANES



Phone: 301-937-8888



