



698-960/1710-2700 MHz 90 Degree Sector DAS Antenna

Antennas Technical Data Sheet

PE51SE1006

Features

- Frequency coverage for 700 MHz, 850 MHz, AWS and PCS bands
- Dual cross polarized (X-Pol) in one antenna
- All weather operation
- Heavy duty steel mounting bracket with easy elevation and tilt adjustment
- Dual polarity feed system - (2) N-Female connectors

Applications

- DAS (Distributed Antenna Systems)
- Cellular networks
- Public safety
- IEEE 802.11b/g WiFi applications
- LPWAN, LoRA, LTE-M, NB-IoT, IoT, M2M applications

Description

The HyperLink PE51SE1006 is a professional grade 90 degree sector panel antenna specifically designed for DAS (Distributed Antenna Systems). It is ideal for LPWAN/IoT/M2M applications such as LoRA, LTE-M and NB-IoT. This outdoor all weather antenna helps wireless carriers to quickly increase capacity as well as deploy new spectrum in zoning challenged locations. The PE51SE1006 combines several different frequency bands to allow multi-user options.

This antenna's construction features a durable UV resistant PVC radome for durability and aesthetics. Its mounting system features heavy-duty up/down tilt mounting brackets. This allows installation at various degrees of incline for easy alignment. The PE51SE1006 features a single N-Female connector due to the antenna's internal combiner. This simplifies installation since only one coax cable is required to be sent to the antenna.

Configuration

Design	Sector
Band Type	Multi
Radiation Pattern	Directional
Polarization	Vertical
Connector Type	N Female
Number of Ports	1
Lightning Protection	DC Ground

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input VSWR		1.6:1	1.6:1	
Impedance		50		Ohms
Gain		14		dBi
Gain	13		14	dBi
Front to Back Ratio		23		dB
Input Power			200	Watts

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	698-960	1,710-2,700				MHz

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [698-960/1710-2700 MHz 90 Degree Sector DAS Antenna PE51SE1006](#)



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Gain	13	14	dBi
Horizontal Beam Width	90	90	Degrees
Vertical Beam Width	17	13	Degrees
VSWR Max 1.6:1	1.7:1		
Maximum Input Power	200	200	Watts

Mechanical Specifications

Radome Material

PVC

Size

Overall Length

61.7 in [156.72 cm]

Width

12.6 in [320.04 mm]

Height

6.3 in [160.02 mm]

Weight

39 lbs [17.69 kg]

Environmental Specifications

Temperature

Operating Range

-40 to +60 deg C

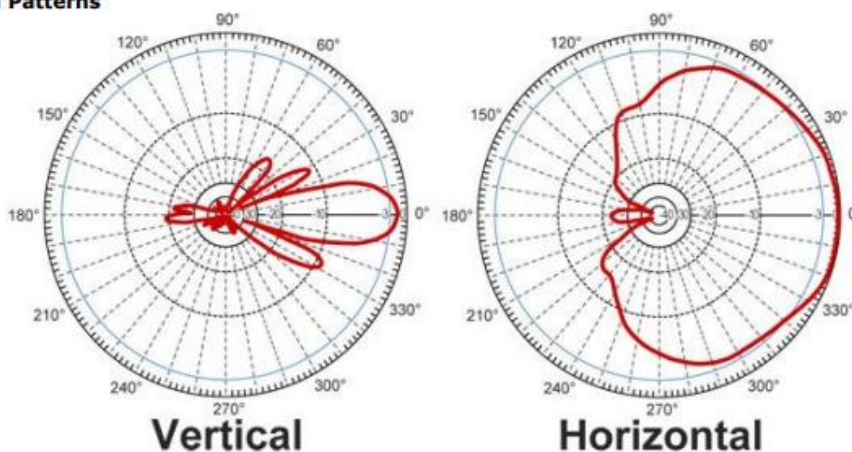
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Radiation Pattern

RF Antenna Patterns



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PE51SE1006

698-960/1710-2700 MHz 90 Degree Sector DAS Antenna from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

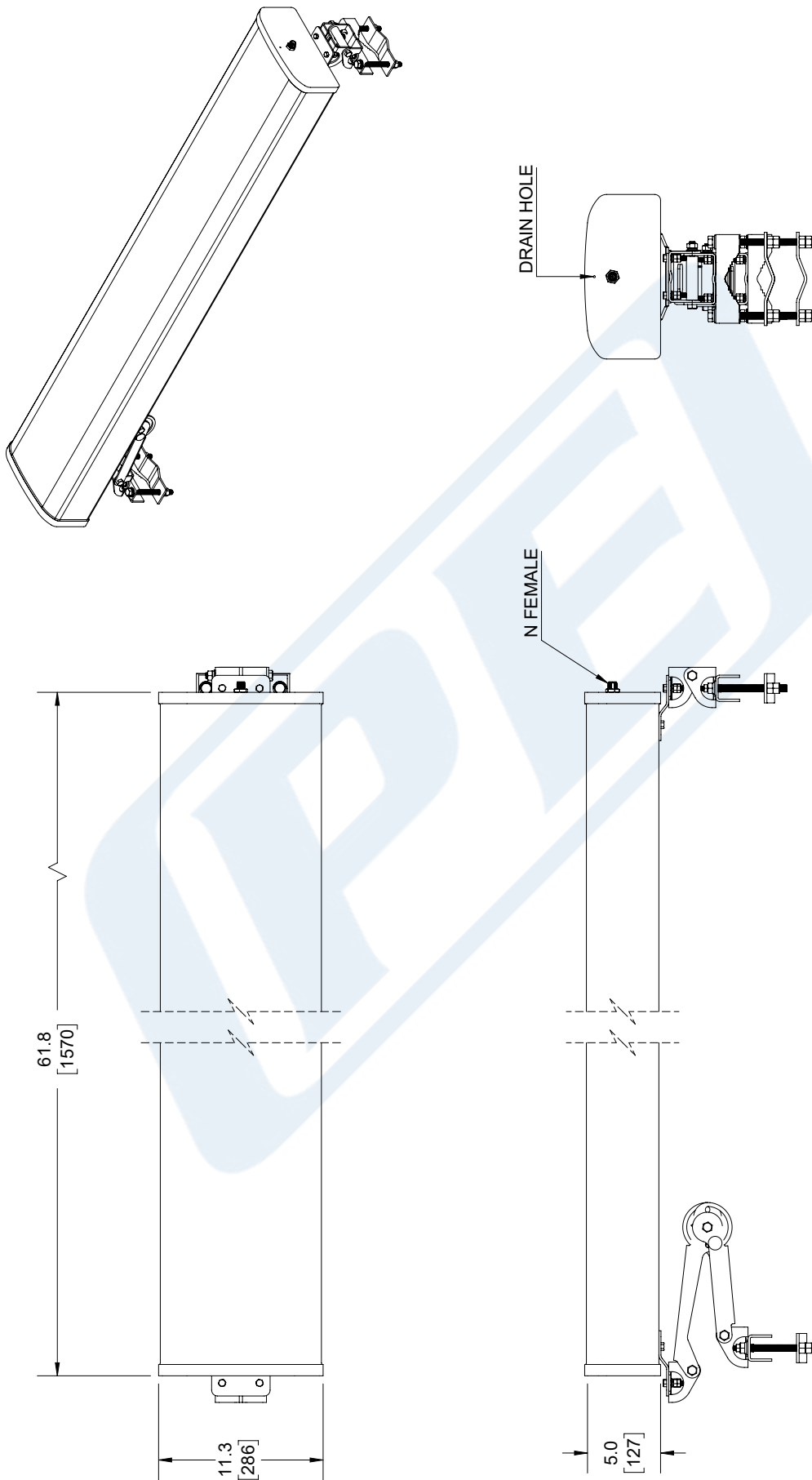
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [698-960/1710-2700 MHz 90 Degree Sector DAS Antenna PE51SE1006](https://www.pasternack.com/multi-antenna-14-dbi-gain-n-pe51se1006-p.aspx)

URL: <https://www.pasternack.com/multi-antenna-14-dbi-gain-n-pe51se1006-p.aspx>

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PE51SE1006 CAD Drawing
698-960/1710-2700 MHz 90 Degree Sector DAS Antenna


REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	2/19/2020	M.MILLER



UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
.X = ±.2 [5.08] FRACTIONS
.XX = ±.02 [.51] ± 1/32
.XXX = ±.005 [.13] ANGLES ± 1°
CABLE LENGTH (L) TOLERANCES:
L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5% L / -0


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SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	K.DANG	PE51SE1006

THIRD-ANGLE PROJECTION



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SHEET	1	OF	1
SCALE	N/A		
REV	A		

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