

698-960/1710-2700 MHz 65 Degree Cross-Polarized Sector DAS Antenna



Antennas Technical Data Sheet

PE51SE1004

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 PE51SE1004 is a professional grade 65 degree cross polarized sector panel antenna specifically designed for DAS (Distributed Antenna Systems). It is ideal for LPWAN/IoT/M2M applications inclduing LoRA, LTE-N, 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 PE51SE1004 combines several different frequency bands to allow multi-user options.

The PE51SE1004 features two independent antennas with cross polarization. This feature doubles the wireless capacity over the same channels. The antenna is fed via two N-Female ports, one for +45° polarized and one for -45° polarized signals. This feature makes these antennas ideal for polarization diversity systems. 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.

Configuration

Design Sector
Band Type Multi
Radiation Pattern Directional
Polarization 45 Deg. Slant
Connector Type N Female
Number of Ports 2
Lightning Protection DC Ground

Electrical Specifications

	Description	Minimum	Typical	Maximum	Units
Input VSWR			1.9:1	1.9:1	
Impedance			50		Ohms
Gain			10		dBi
Gain		9		10	dBi
Isolation		26			dB
Front to Back Ratio			21		dB
Input Power				100	Watts

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 65 Degree Cross-Polarized Sector DAS Antenna PE51SE1004

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com



698-960/1710-2700 MHz 65 Degree Cross-Polarized Sector DAS Antenna



Antennas Technical Data Sheet

PE51SE1004

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	698-960	1,710-2,700				MHz
Gain	10	10	10	, iii		dBi
Horizontal Beam Width	63	62				Degees
Vertical Beam Width	62	56				Degees
Maximum Input Power	100					Watts

Mechanical Specifications

Radome Material PVC

Size

 Overall Length
 17.6 in [447.04 mm]

 Width
 11 in [279.4 mm]

 Height
 4.9 in [124.46 mm]

 Weight
 8.1 lbs [3.67 kg]

Environmental Specifications

Temperature

Operating Range -40 to +60 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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 65 Degree Cross-Polarized Sector DAS Antenna PE51SE1004



698-960/1710-2700 MHz 65 Degree Cross-Polarized Sector DAS Antenna

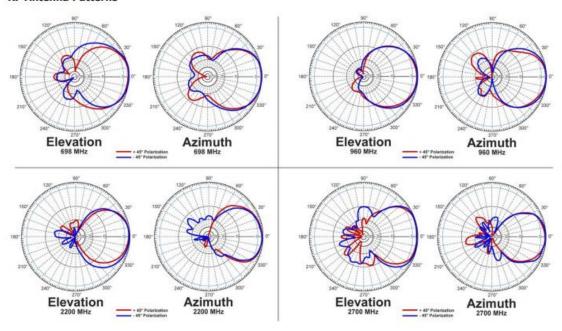


Antennas Technical Data Sheet

PE51SE1004

Typical Radiation Pattern

RF Antenna Patterns



698-960/1710-2700 MHz 65 Degree Cross-Polarized 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 65 Degree Cross-Polarized Sector DAS Antenna PE51SE1004

URL: https://www.pasternack.com/multi-antenna-10-dbi-gain-n-pe51se1004-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

PE51SE1004 CAD Drawing
698-960/1710-2700 MHz 65 Degree Cross-Polarized Sector DAS Antenna

