



4950 MHz to 7125 MHz, 2-foot deep dish Parabolic
Antenna, 2x2 MIMO, 30 dBi, RPSMA

Antennas Technical Data Sheet

PE51PD1009

Features

- 2-Foot deep dish parabolic antenna
- 4950 to 7125 MHz, 30 dBi
- VSWR < 2.5:1
- All aluminum dish
- Dual slant (V/H or $\pm 45^\circ$)
- 50 W max input power per port
- 2 x RPSMA female connectors
- DC ground

Applications

- Long distance backhaul
- Point to point data links (PtP)
- Point to multi-point data links (PtMP)
- Wi-Fi 5, Wi-Fi 6, Wi-Fi 6E and Wi-Fi 7
- Unlicensed 5GHz and 6GHz bands
- 5G bands - n46, n47, n96, n102, n104
- 2x2 MIMO capability
- High speed internet access

Description

MIMO vertical/horizontal polarized parabolic antenna PE51PD1009 from Pasternack is part of our extensive in-stock antennas that ship the same day from our ISO 9001:2015 certified facility. The MIMO antenna with a 4950 to 7125 MHz frequency range has a maximum input VSWR of 2.5:1. This antenna has 2-port SMA connector.

This antenna has a white radome made of aluminum, an overall length of 23.6 in, width of 23.6 in, and weighs 22 lbs. Pasternack's PE51PD1009 is a single band parabolic antenna operating from 4950 to 7125 MHz with 30 dBi gain.

Pasternack's experts are on hand to assist you with any inquiries. Order this PE51PD1009 MIMO parabolic antenna 7 days a week, 24 hours a day using our on-line ordering system with no MOQs (minimum order quantity) and same-day shipping.

Configuration

Design	Parabolic
Application Band	MIMO
Band Type	Single
Polarization	H/V or 45 Deg. Slant
Connector Type	SMA Reverse Polarity
Interface 2	SMA Reverse Polarity
Number of Ports	2
Lightning Protection	DC Grounded

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	4,950		7,125	MHz
Impedance		50		Ohms
Isolation		30		dB
Front to Back Ratio		35		dB
Horizontal (Azimuth) Beam Width		5		Degrees
Vertical (Elevation) Beam Width		5		Degrees
Input Power			50	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4950 MHz to 7125 MHz, 2-foot deep dish Parabolic Antenna, 2x2 MIMO, 30 dBi, RPSMA PE51PD1009](#)



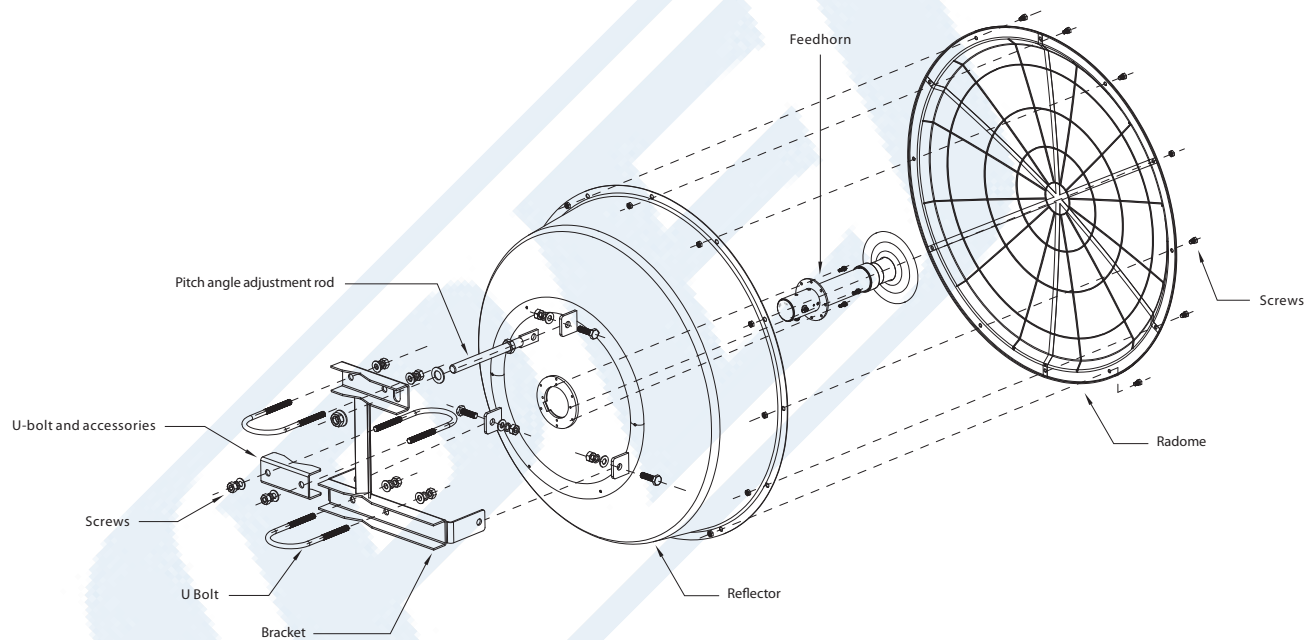
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Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	4.95 to 5.1	5.1 to 5.9	5.9 to 7.125			GHz
Gain	29	30	31			dBi
VSWR Max	2.5:1	2:1	2:1			



Mechanical Specifications

Radome Material

Aluminum

Size

Overall Length

33 in [838.2 mm]

Width

29 in [736.6 mm]

Height

14 in [355.6 mm]

Mounting Mast Diameter

1.1811 to 3.14961 in [30.00 to 80.00 mm]

Weight

22 lbs [9.98 kg]

Environmental Specifications

Temperature

Operating Range

-40 to +70 deg C

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

Plotted and Other Data

Notes:

4950 MHz to 7125 MHz, 2-foot deep dish Parabolic Antenna, 2x2 MIMO, 30 dBi, RPSMA 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.

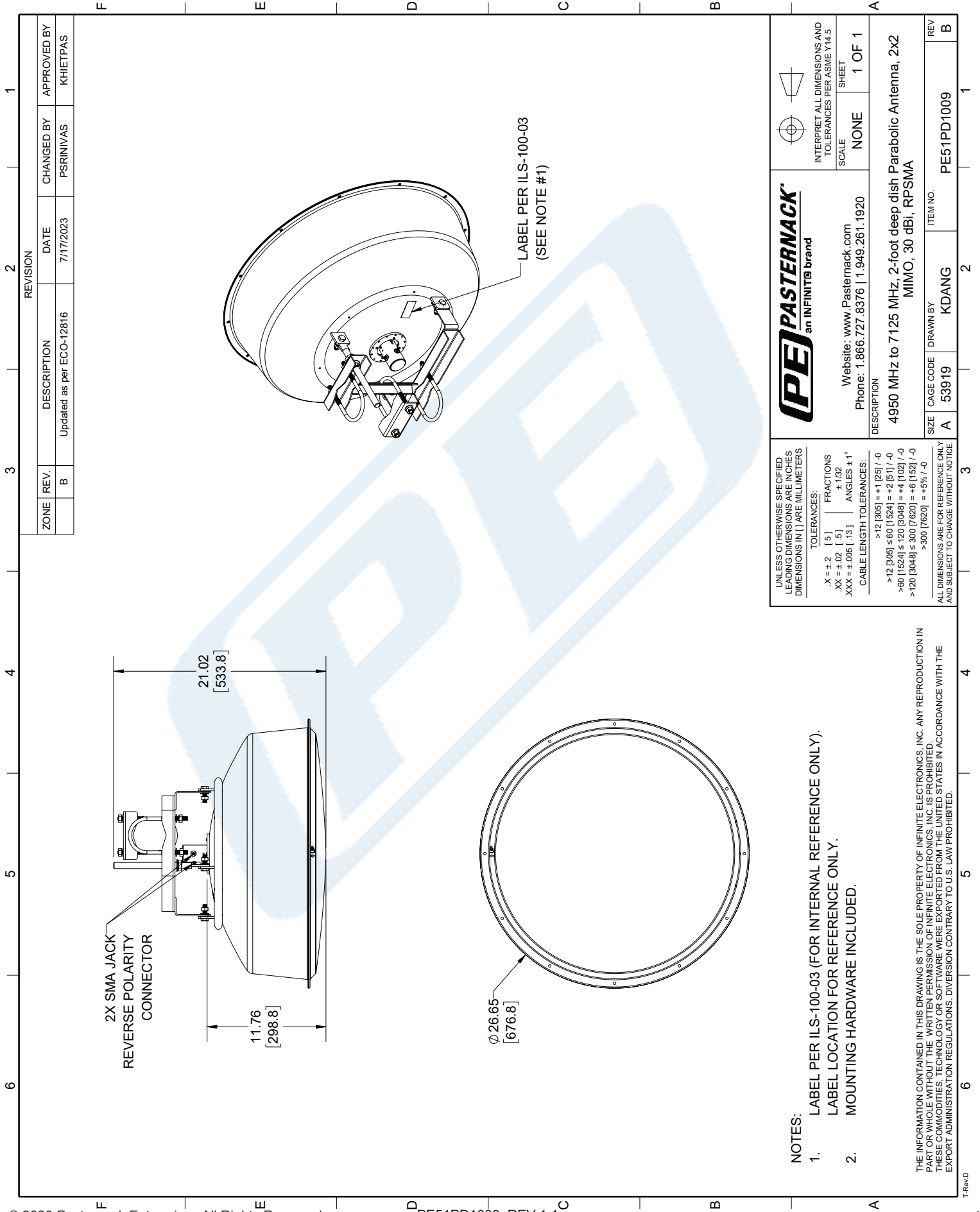
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URL: <https://www.pasternack.com/parabolic-antenna-4950-7125-mhz-reverse-polarity-sma-connector-pe51pd1009-p.aspx>

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.

PE51PD1009 CAD Drawing

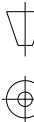
4950 MHz to 7125 MHz, 2-foot deep dish Parabolic Antenna, 2x2 MIMO, 30 dBi, RPSMA



ZONE	REV.	DESCRIPTION	DATE	CHANGED BY	APPROVED BY
	B	Updated as per ECO-12816	7/17/2023	PSRINIVAS	KHIETPAS

REVISION					
DESCRIPTION					
4950 MHz to 7125 MHz, 2-foot deep dish Parabolic Antenna, 2x2 MIMO, 30 dBi, RPSMA					
Website: www.Pasternack.com					
Phone: 1.866.727.8376 1.949.261.1920					

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		TOLERANCES:		FRACTIONS	
X = ±.2		[.5]		± 1/32	
.XX = ±.02		[.13]		ANGLES ± 1°	
XXX = ±.005		[.13]		CABLE LENGTH TOLERANCES:	
>12 [305]		= ±1 [25]		/ -0	
>12 [305]		≤ 60 [1524]		= +2 [51]	
>60 [1524]		≤ 120 [3048]		= +4 [102]	
>120 [3048]		≤ 300 [7620]		= +6 [152]	
>300 [7620]		= +5%		/ -0	
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE					

			
INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5			

		an INFINITI® brand	
Website: www.Pasternack.com			
Phone: 1.866.727.8376 1.949.261.1920			

DESCRIPTION		SCALE		SHEET	
4950 MHz to 7125 MHz, 2-foot deep dish Parabolic Antenna, 2x2 MIMO, 30 dBi, RP-SMA		NONE		1 OF 1	

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	KDANG	PE51PD1009	B

3				2				1			
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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5		SCALE		SHEET	
NONE		1 OF 1		1 OF 1	
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