



698-960/1710-2700 MHz 3/4 dBi Omni Directional DAS Antenna

Antennas Technical Data Sheet

PE51OM1020

Features

- Frequency coverage for 700 MHz, 850 MHz, AWS and PCS bands
- All weather operation
- Heavy duty steel mounting bracket
- Integral N-Female connector
- Compact design

Applications

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

Description

The HyperLink PE51OM1020 is a compact omni-directional antenna specifically designed for DAS (Distributed Antenna Systems). This outdoor all weather antenna helps wireless carriers to quickly increase capacity as well as deploy new spectrum in zoning challenged locations. It is ideal for LPWAN/IoT/M2M applications such as LoRA, LTE-M, and NB-IoT. The PE51OM1020 combines several different frequency bands to allow multi-user options.

This antenna's construction features a durable UV resistant ABS radome for durability and aesthetics. Its mounting system features a heavy-duty mounting bracket and U-Bolts for superior strength. The bulkhead type connector also allows this antenna to be mounted to panels or bulkheads.

Configuration

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

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	698		2,700	MHz
Input VSWR		1.6:1	1.6:1	
Impedance		50		Ohms
Gain	3	4	4	dBi
Input Power			200	Watts

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	0.698 to 0.96	1.71 to 2.7				GHz
Gain	4	4				dBi
Horizontal Beam Width	360	360				Degrees
Vertical Beam Width	75	40				Degrees

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 3/4 dBi Omni Directional DAS Antenna PE51OM1020](#)



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Maximum Input Power

200

Watts

Mechanical Specifications

Radome Material

ABS

Size

Radome Diameter

7.3 in [185.42 mm]

Overall Length

4 in [101.6 mm]

Width

7.3 in [185.42 mm]

Height

7.3 in [185.42 mm]

Weight

2 lbs [907.18 g]

Environmental Specifications

Temperature

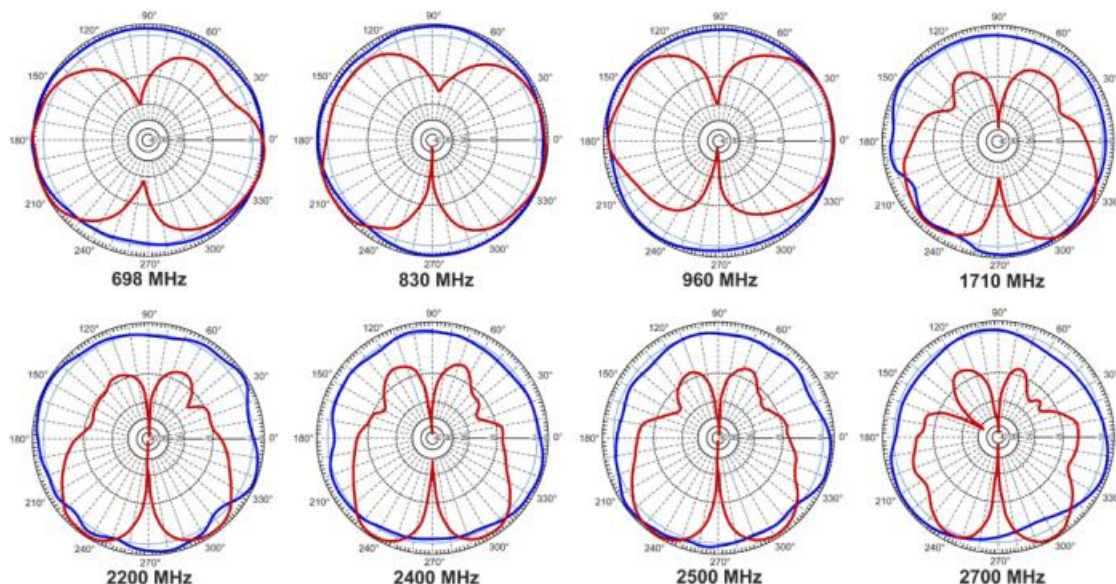
Operating Range

-40 to +60 deg C

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

Plotted and Other Data

Notes:



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PE51OM1020

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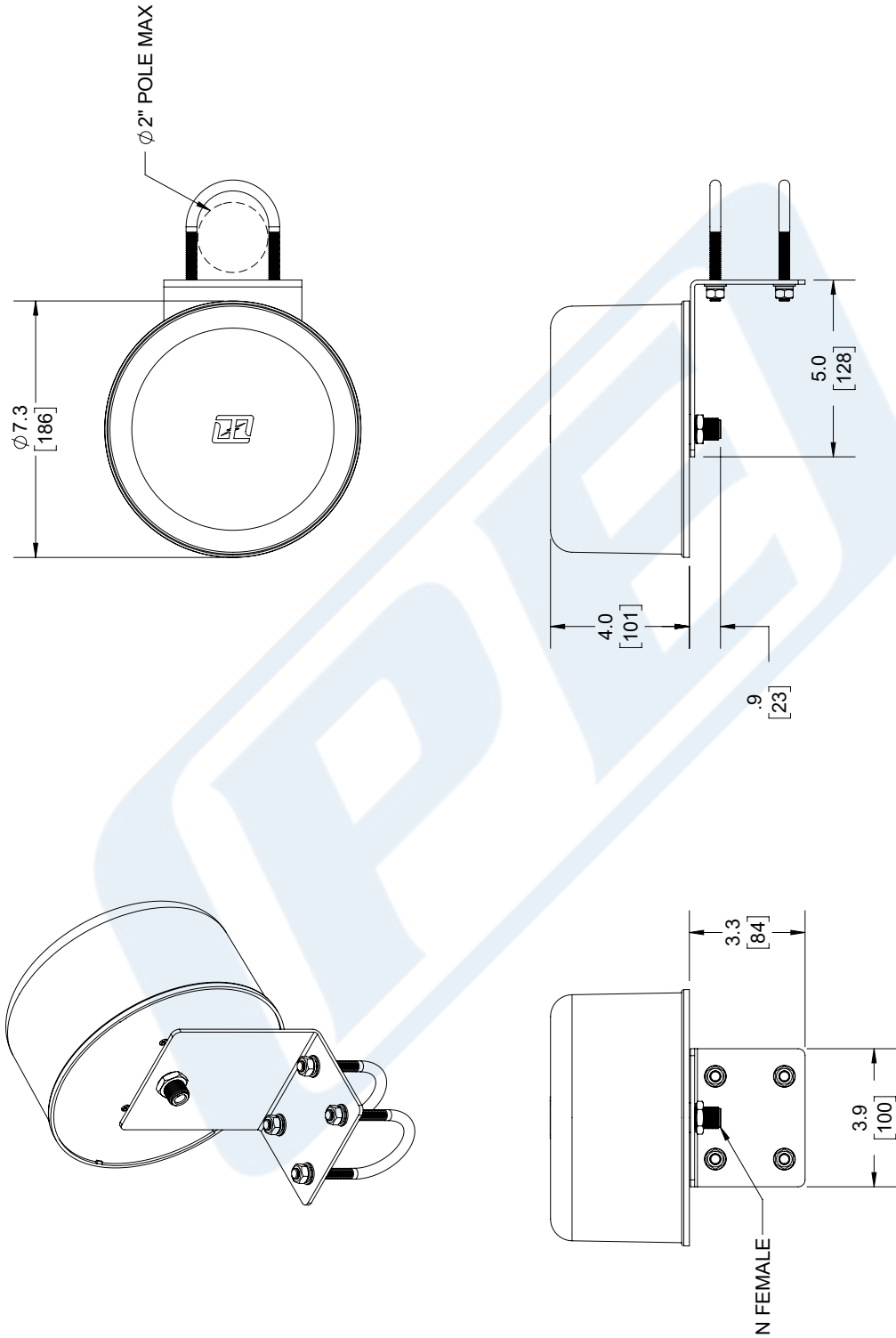
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PE51OM1020 CAD Drawing
698-960/1710-2700 MHz 3/4 dBi Omni Directional DAS Antenna

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	2/14/2020	M.MILLER



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

TOLERANCES:
X = ± 2 [5.08] FRACTIONS
.XX = ± .02 [.51] ANGLES ± 1°
.XXX = ± .005 [.13]
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% / -0
ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

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an INFINITI brand

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SHEET 1 OF 1

SCALE N/A

REV

ITEM NO. PE51OM1020

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