

### Indoor Ceiling DAS Omni transparent see thru Antenna, 4.5 dBi, 698MHz - 4800MHz, N-Female, Low PIM

Fairview Microwave's Indoor DAS Ceiling Omni Transparent See Thru Antenna FM51249 is in stock and ready to ship the same-day of order. The FM51249 indoor ceiling omni antenna comes with 4.5dBi gain and N female connectors. This indoor DAS ceiling omni antenna has a wide band frequency range from 698MHz to 4800MHz. The 1-port capabilities increase the 5G data speeds up to 4 x that of a single antenna. Fairview Microwave's Low PIM (low internal noise) N female increases the throughput, data speeds, quality of connection and allows more users to connect to the antenna.

Our omni antenna specialists are ready and available to answer any questions you may have on the FM51249 indoor DAS ceiling omni transparent see thru antenna. The 4.5dBi ceiling omni antenna low profile designs allow for seamless installation indoors without creating eyesores or potential interference with indoor personnel. These low PIM antennas have low loss pigtailed that allows for installation flexibility.

Contact Fairview Microwave's expert technical support for assistance with the indoor DAS ceiling omni transparent see thru antenna or any Antenna. Our knowledgeable sales team simplifies the purchasing process and ensures that your ceiling Omni antenna will be exact to specification.

The omni antenna FM51249 from Fairview Microwave provides a higher quality connection and improved longevity. Order your 1-port low PIM (low noise) Indoor DAS Ceiling Omni Transparent See Thru Antenna FM51249 from Fairview Microwave today. There is no MOQ (minimum order quantity) and the product ships same day from our warehouse.

#### Configuration

Design	Ceiling
Gain	2.5 dBi
Polarization	Vertical/Horizontal
Connector Type	N Female
Number of Ports	1

#### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	698		4,800	MHz
Input VSWR			2:1	
Impedance		50		Ohms
Gain	2.5		4.5	dBi
Input Power			50	Watts
Passive Intermodulation 3rd order, 2 x 20 W			-140	dBc

#### Specifications by Frequency

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	0.698-0.806	0.806-0.96	1.71-2.7	3.3-4.8		GHz
Gain	2.5	3.5	4	4.5		dBi
Horiz. Beam Width	65	52	45	40		Degrees



#### Features:

- Indoor distribution of 5G, LTE, GSM/CDMA
- In-building public or private networks
- LPWAN, LoRA, LTE-M, NB-IoT, IoT, M2M applications
- DAS (Distributed Antenna Systems)

#### Applications:

- Low Passive Intermodulation (PIM) <-153 dBc @ 2x20W
- Vertical Polarization
- Low return loss, stable performance
- N-Female connector
- Covers 5G frequency bands including 600 MHz and extended CBRS

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Vert. Beam Width	360	360	360	360	Degrees
VSWR	2:1	2:1	2:1	2:1	

**Mechanical Specifications**

Radome Material	Acrylic
<b>Size</b>	
Length	6.29921 in [160 mm]
Width	6.29921 in [160 mm]
Height	0.15748 in [4 mm]
Weight	1.76 lbs [798.32 g]

**Environmental Specifications**

<b>Temperature</b>	
Operating Range	-40 to +60 deg C
Humidity	<95
Ingress Protection	IP5X

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

**Plotted and Other Data**

Notes:

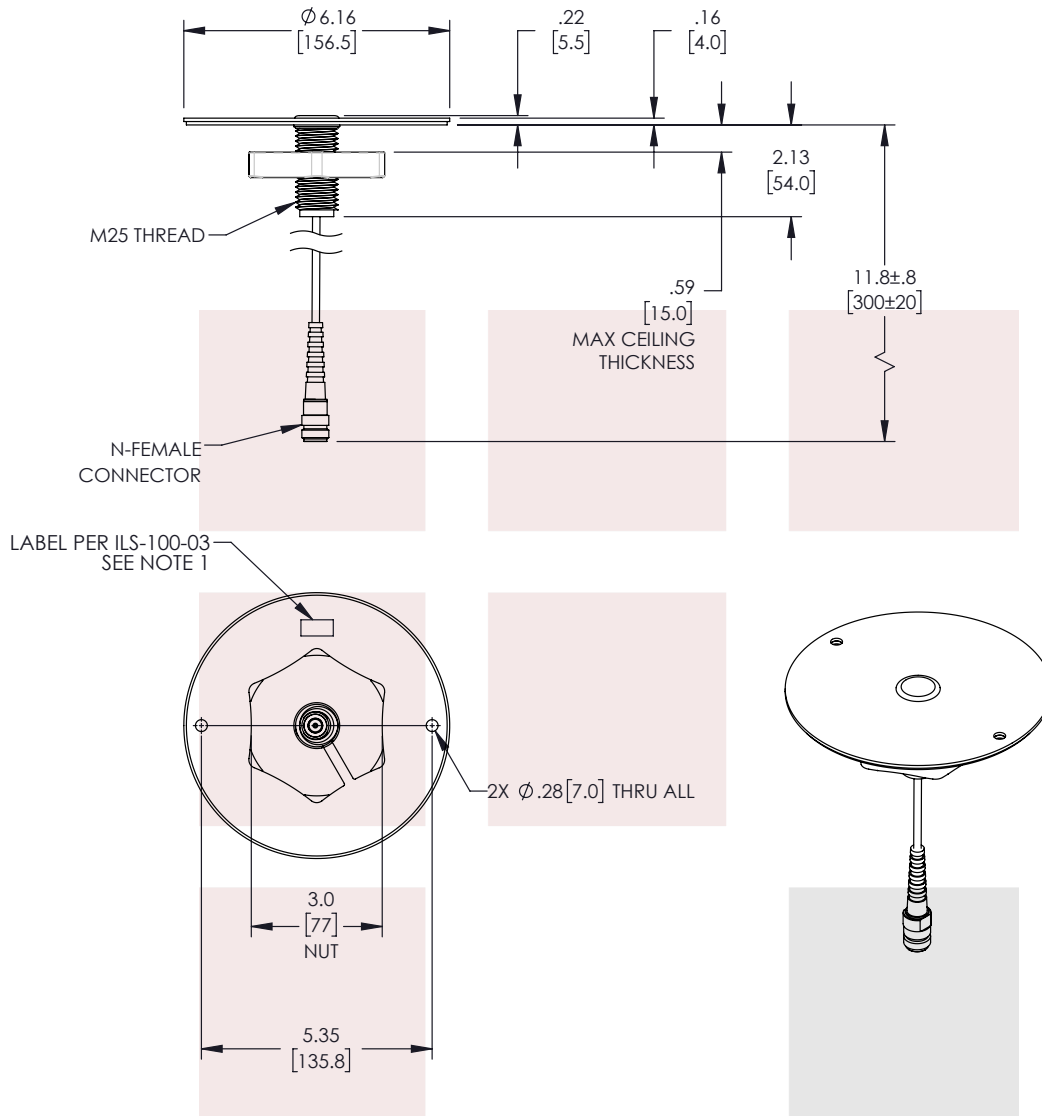
Indoor Ceiling DAS Omni transparent see thru Antenna, 4.5 dBi, 698MHz - 4800MHz, N-Female, Low PIM from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Indoor Ceiling DAS Omni transparent see thru Antenna, 4.5 dBi, 698MHz - 4800MHz, N-Female, Low PIM FM51249](#)

URL: <https://www.fairviewmicrowave.com/wide-band-antenna-5-dbi-n-female-fm51249-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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	06/21/2022	KHIETPAS



- NOTES:  
1. LABEL PER ILS-100-03 (FOR INTERNAL USE ONLY). LABEL LOCATION SHOWN IS FOR REFERENCE ONLY.

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TITLE

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

TOLERANCES:

.X =  $\pm 0.2$  [5.08] FRACTIONS  
.XX =  $\pm 0.02$  [.51]  $\pm 1/32$   
.XXX =  $\pm 0.005$  [.13] ANGLES  $\pm 1^\circ$

CABLE LENGTH (L) TOLERANCES:

L  $\leq 12$  [305] =  $\pm 1$  [25] / -0  
12 [305] < L  $\leq 60$  [1524] =  $\pm 2$  [51] / -0  
60 [1524] < L  $\leq 120$  [3048] =  $\pm 4$  [102] / -0  
120 [3048] < L  $\leq 300$  [7620] =  $\pm 6$  [152] / -0  
300 [7620] < L =  $\pm 5\%$  L / -0

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE A	CAGE CODE 3FKR5	DRAWN BY AKRESOWSK	ITEM NO. FM51249	REV A
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T-Rev.D