

Broadband Dual Polarized MIMO In-Building Antenna [1710-2700 MHz]

PEAR™ M4969i

Description:

- Ceiling mount omni directional MIMO antenna for in-building applications such as DAS.
- The V-Pol covers 698-2700 MHz and 5200-6000 MHz and the H-Pol covers the 1710-2700 MHz frequency range.



Broadband MIMO Omni Antenna (1710-2700 MHz)

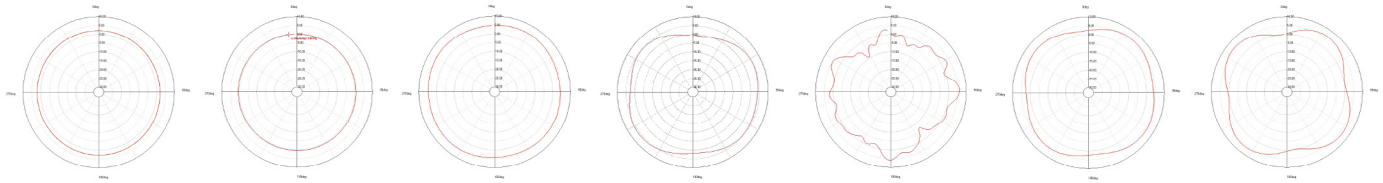
Electrical Specifications	Port 1		Port 1 & 2		Port 1
Frequency Band [MHz]	698-790	790-960	1710-2170	2170-2700	5200-6000
Input Connector Type	2x N-Type (F)				
VSWR/Return Loss	<1.5:1 / 14.0 dB	<1.7:1 / 11.8 dB	<1.8:1 / 10.9 dB	<2.0:1 / 9.5 dB	< 2.5:1 / 7.36 dB
Inter-Port Isolation (in dB typ.)	30	25	25	25	30
Impedance	50 Ω				
Polarization	Vertical		Vertical / Horizontal		Vertical
Horizontal Beamwidth	Omni (360°)				
Max. Gain	2.5 dBi	2.4 dBi	6.9 dBi	7.2 dBi	6.0 dBi
Avg. Gain	2.0 dBi	1.9 dBi	5.7 dBi	6.2 dBi	5.0 dBi
Max Input Power / Port	25 Watts at ambient temperature 77°F (25°C)				
PIM @ 2x43 dBm	<-150 dBc				

Mechanical Specifications	
Operating Temperature	-40° to 158°F (-40° to +70°C)
Antenna Weight	1.58 lbs (720g)
Antenna Diameter	13.2" (335 mm)
Antenna Height	4.88" (124 mm)
Radome Material	PC / ABS
Flamibility rating	UL 94-V0
RoHS	Compliant
Radome Color	RAL 9016 (white)*
Ingress Protection	Indoor
Approved for use in Plenum Space	Listed & tested by Intertek/ETL

* Radome can be painted with recommended paint "Krylon fusion for plastic"

Release Date: October 13, 2017; Revision: A - M4969

Antenna Patterns



V-Pol 698 MHz

V-Pol 830 MHz

V-Pol 1900 MHz

V-Pol 2600 MHz

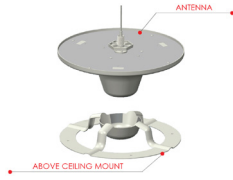
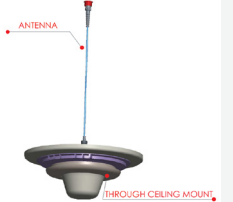
V-Pol 5500 MHz

H-Pol 1900 MHz

H-Pol 2600 MHz



Part Numbers, Ordering Options and Accessories

Description:	Part Number:
Antenna with 2x N-Type (F) Connectors with Below Ceiling Mount	02108270-04969U
Antenna with 2x N-Type (F) Connectors with Through Ceiling Mount	02108270-04969T
Mounting Bracket(s):	Part Number:
Above Ceiling Mounting Kit (Optional) easy installation solution to mount antennas above ceilings. Mounting hardware is not included. Make sure the selected fasteners are appropriate based on the ceiling material to which the above ceiling mount is attached to.	 <p>P/N: 62-40-09</p>
Through Ceiling Mounting Kit (Optional) Through ceiling mounting conceals the antenna with only the nose protruding through the ceiling. The base plate is hidden above the false ceiling which results in a 40% reduction of the visible antenna footprint. This through ceiling mount is suitable for tile thickness range from 0.55" to 0.82" (14mm to 22mm)	 <p>P/N: 62-17-09</p>

Matting Male Connector Torque:

N-Type: 26.6 in-lb (3 Nm)