



EM-B40004-NJ

Multi-Band iDAS

Indoor Ceiling Mount Antenna

698-960 / 1710-2700 MHz

- Plenum Rated Construction
- Mounts through any Ceiling Panel, conductive or non-conductive, up to 1-3/8 in. (35mm) thick
- Vertically Polarized
- Mounting Hardware Included

Electrical Specifications

Frequency Band		698-960 / 1710-2700 MHz
VSWR	698-760 MHz	<1.8:1 typ., 2:1 max.
	760-960 MHz	<1.5:1 typ., 1.6:1 max
	1710-2700 MHz	<1.3:1 typ., 1.5:1 max.
Impedance		50Ω
Gain	698-960 / 1710-2100 / 2100-2700 MHz	2 dBi / 3 dBi / 5 dBi
E-Plane HPBW		80°, typical
H-Plane HPBW		Omnidirectional
Polarization		Vertical
Power Handling		50 W

Mechanical Specifications

Height, As Mounted		4.5 in. (114.3 mm)
Diameter		8 in. (203 mm)
Mounting Hole Dia.		0.7 in. (18 mm)
Mounting Surface Thickness (max)		1.375 in. (35mm)
Weight (Installed)		0.75lb. (0.34kg)
Mounting Application / Type		Direct Ceiling Mount, Thru-Hole
Connector Type		N Type, Jack
Cable Type, Length		RG-141 Teflon Type, 10 in.(254mm)
Operating Temperature Range		-40° to 85° C

Specifications subject to change without notification.



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- PIM Rated <-150 dBc

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Gain	698-960 / 1710-2100 / 2100-2700 MHz	2 dBi / 3 dBi / 5 dBi
E-Plane HPBW	80°, typical	
H-Plane HPBW	Omnidirectional	
Polarization	Vertical	
Power Handling	50 W	
PIM Rating (2x43 dBm)	<-150dBc	

Mechanical Specifications

Height, As Mounted	4.5 in. (114.3 mm)
Diameter	8 in. (203 mm)
Mounting Hole Dia.	0.7 in. (18 mm)
Mounting Surface Thickness (max)	1.375 in. (35mm)
Weight (Installed)	0.75lb. (0.34kg)
Mounting Application / Type	Direct Ceiling Mount, Thru-Hole
Connector Type	N Type, Jack
Cable Type, Length	RG-141 Teflon Type, 10 in.(254mm)
Operating Temperature Range	-40° to 85° C

Specifications subject to change without notification.



INSTALLATION INSTRUCTIONS
EM-B40004-NJ & EM-B40005-NJ (PIM RATED)
(698-960/1710-2700 MHz)
MULTI-BAND INDOOR CEILING MOUNT ANTENNA

*Congratulations on your selection of another quality antenna product from E/M Wave.
E/M Wave is committed to continually provide the greatest antenna VALUE for your wireless applications.*

1. **Ceiling Panel:** Antenna mounts to any panel surface up to 11/32 inch (8.7mm) thick.
2. Determine Mounting location. Drill or punch 3/4 inch (19mm) hole through the panel surface.
3. Remove the plastic mounting nut from the antenna stud.
4. Insert the N Connector and cable through the mounting hole as shown in Fig. 1.
5. Attach the plastic nut by passing the nut over the feed cable assembly.
6. Secure the nut with firm hand torque until antenna is completely seated against the mounting surface. Do not apply excessive torque.
7. Attach Coaxial Transmission Line to the antenna feed cable.

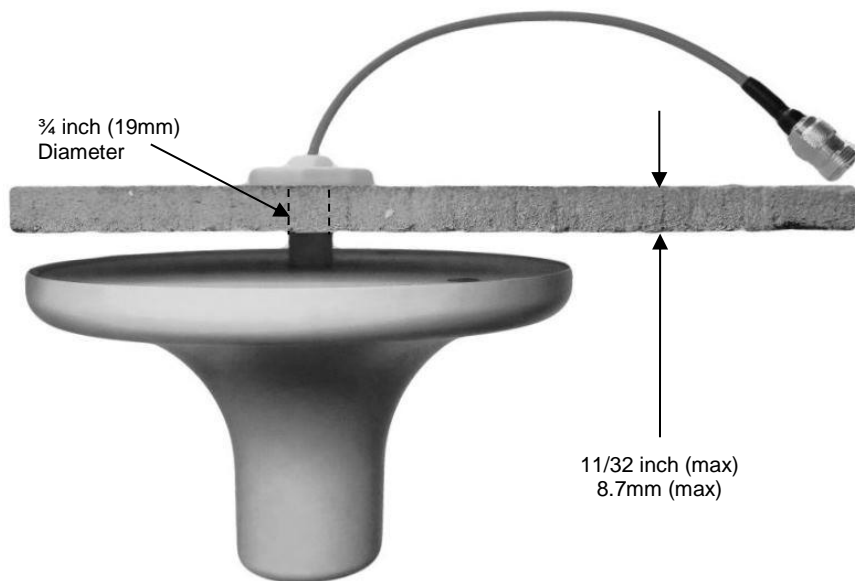


Figure 1

For Product and Warranty Information
www.emwaveinc.com