

## MULTI-BAND ANTENNAS

### Multi-Band In-Building Antennas

Our antennas are designed, manufactured and integrated with the most innovative and highly specialized processes, providing our customers with a solid, long-lasting solution for their in-building applications.

Our multi-band antennas are one-of-a-kind and many are the only ones available in the world. They are able to cover more than three bands in most cases and provide an idea of some of our products.

We offer a wide variety of our antennas with Fire Retardant 6200 Kydex radomes. These radomes are designed for use in in-building applications and public transport vehicles such as underground trains, vans, buses, and trains. It meets the recommended fire safety practices of both the Federal Transit Administration (FTA) and the Federal Rail Administration (FRA) for smoke emission and flammability as tested under ASTM E-662 and ASTM E-162.

Our antennas have been installed all over the world. Some typical installations are Nuclear Power Plants, Correction Centers, Tunnels, High-Rise Buildings, SubWays, Light & Heavy Rail, Power Plants, High-Security Office networks, and Mine Shafts.

The F-3741 has been designed for mounting on a concrete surface. This is a requirement for meeting full bandwidth specification.



**F-3749**

IN-BUILDING

Electrical Specifications	F-3741*	F-3749*	F-33120
Frequency Range, MHz	VHF / UHF / 806-960	VHF / UHF / 806-960	406-430 / 806-870 / 1800-1990
Nominal Gain, dBd	Unity	Unity	Unity
Bandwidth: 1.5:1 VSWR, MHz			
138-174	8	8	n/a
406-512	64	64	24
764-890	126	126	n/a
806-960	154	154	64
1800-1990	n/a	n/a	190
2400-3000	n/a	n/a	n/a
Polarization	Vertical	Vertical	Vertical
Pattern	Omnidirectional	Omnidirectional	Omnidirectional
Power Rating, Watts Total	50	50	50
Nominal Impedance, Ohms	50	50	50
Radome	Polycarbonate	6200 Kydex	6200 Kydex
Color	Black	White	White
Lightning Protection	DC Ground	DC Ground	DC Ground
Standard Termination	N Male	N Female	N Female
Mechanical Specifications			
Length, inch (mm)	11.25 (286.88)	9.78 (249)	5.5 (140)
Diameter, inch (mm)	0.65 (16.575)	7.0 (178.5)	9.8 (248)
Weight, lbs (kg)	n/a	n/a	2.5 (1.15)
Min. Ground Plane Size, inches (mm)	Included	14 x 14 (357 x 357)	14 x 16 (356 x 406)

\* 700MHz is also available

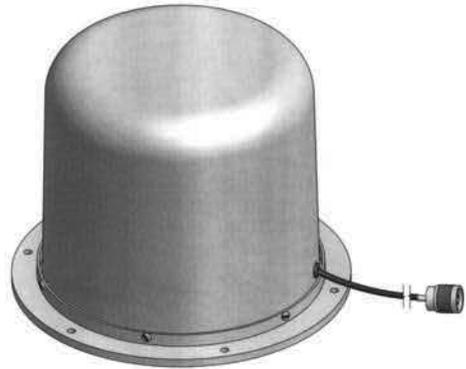
\*\* Comes with pigtail and N Male connector.

Please call for more available models.

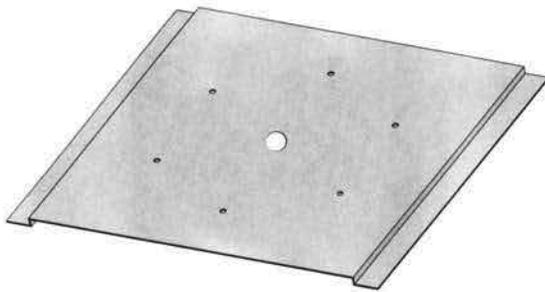
Specify frequencies when ordering.



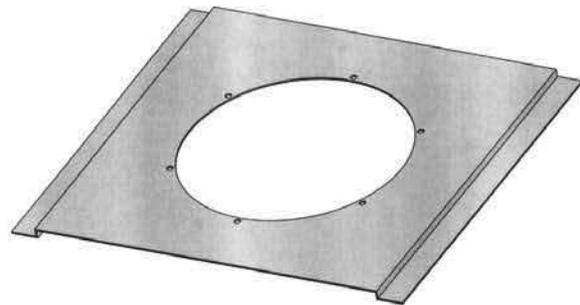
F-3749



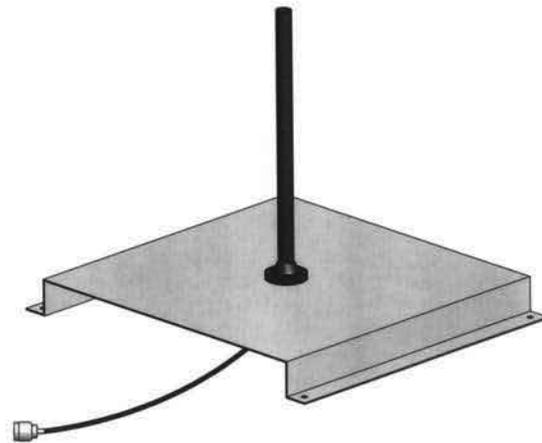
F-3749A\*\*



F-33034  
Optional Mounting Bracket



F-33220  
Optional Mounting Bracket



F-3741