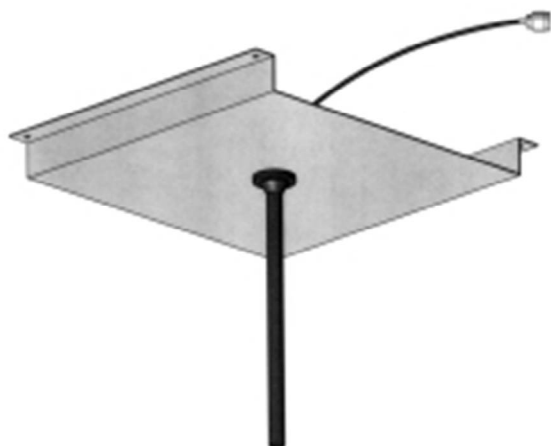


F-3741 Tri-Band Antenna

Unity Gain

VHF, UHF, 764-960

- The F-3741 Tri-Band antenna is designed to provide simultaneous coverage in the 150, 450, and 700, 800 or 900 bands.
- A common application is to provide coverage in enclosed areas such as tunnels, subway stations, mines, etc.
- The antenna employs a vertical radiating structure housed in a flame retardant polycarbonate radome.
- **This antenna has been designed for mounting on a concrete surface. This antenna must be mounted on a concrete surface in order to meet full bandwidth specifications.**



- Supplied with pigtail and N-Male connector.
- 14" x 14" Ground Plane mounting bracket Included with antenna

*** Operating Frequencies or frequency ranges must be specified when ordering.**

Electrical Specifications	F-3741
Frequency Bands:	150/450/700,800,900
Nominal Gain:	0 dB
Bandwidth @ 2.0:1 VSWR*	
138-174 MHz	8
406-470 MHz or 450-512 MHz	64
764-890 MHz or 806-960 MHz	126
Polarization	Vertical
Pattern	Omnidirectional
Power Rating, Watts (Total)	50
Nominal Impedance, Ohms	50
Radome	Polycarbonate
Color	Black
Lightning Protection	DC Ground
Standard Termination	N Male

Mechanical Specifications	F-3741
Length, inches (mm)	11.25 (286.88)
Diameter, Inches (mm)	0.65 (16.575)
Min. Ground Plane Size, inches (mm)	14" x 14"



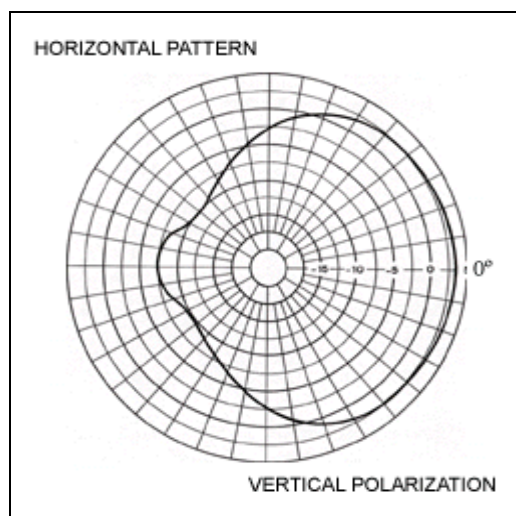


- Rugged two-element low gain yagi antenna with wide unidirectional characteristic.
- Cardioid pattern offering some coverage to the rear of the antenna if needed.
- Rugged design to withstand harsh environmental conditions.
- Mounting hardware supplied will permit either vertical or horizontal polarization.
- DC ground for lightning protection.

Electrical Specifications

291-70

Frequency Range:	138-174 MHz
Nominal Gain:	3.5 dBd
Front-to-back ratio	15 dB
Horizontal Beamwidth: (Ver Pol)	140°
Vertical Beamwidth: (Ver. Pol.)	70°
Bandwidth: 1.5:1 VSWR	3.75% of frequency
Polarization:	Vertical or Horizontal
Pattern:	Directional
Power Rating:	350 Watts
Nominal Impedance:	50 Ohms
Lightning Protection:	DC Ground
Standard Termination:	Type « N » Male



Mechanical Specifications:

291-70

Length: (at 138 MHz)	54" (1372mm)
Width:	43.6" (1107mm)
Weight:	4.0 lbs. (1.8kg)
Rated Wind Velocity: No ice	150 mph (241km/h)
Rated Wind Velocity with 0.5" (13mm) of ice	140 mph (225km/h)
Lateral Thrust at 100 mph wind:	47 lbs. (21kg)
Bending Moment: (100 mph)	113 ft/lbs. (15.6kg/m)
Equiv. Flat Plate Area:	1.0 ft² (0.093m²)
Mounting Hardware:	115-85 Clamp set

