



### F-3647-HDBTM

The F-3647-HDBTM is a wideband dual antenna with an 871F-70 on the base and a 771-70 on the top. The antenna offers for the 871F-70 & 771-70 a choice of radiation patterns that are determined by the dipole-to-mast spacing. The F-3647-HDBTM has an internal cabling and is not field adjustable.

The 871F-70 & 771-70 antenna is offered in a 1/4, 3/8, or 1/2 wave pattern spacing versions. The antenna can be black anodized.

Electrical Specifications	871F-70	771-70
Frequency Range, MHz	138-174	406-512
Nominal Gain, dBd	2.0-2.5	2.0-2.5
Number of Dipoles	1	1
Bandwidth 1.5:1 VSWR, MHz	36	106
Polarization	Vertical	Vertical
Pattern	Offset / Bidirectional	Offset/ Bidirectional
Power Rating, Watts	200	150
Nominal Impedance, Ohms	50	50
Lightning Protection	DC Ground	DC Ground
Standard Termination	Type N Male, other connectors available upon request	
Temperature Range	-40 to +60 C°	

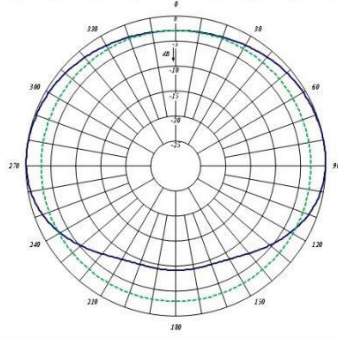


Mechanical Specifications	F-3647 Regular	F-3647-HDBTM
Length, in (mm)	126 (3200)	126 (3200)
Width (1/2 Wave Spacing), in. (mm)	41 (1041)	43 (1092)
Weight, lbs. (kg)	26 (12)	32 (14.5)
Rated Wind Velocity, No Ice, mph (km/h)	145 (233)	170 (274)
Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	115 (185)	135 (217)
Lateral Thrust @ 100 mph, wind, lbs. (N)	85 (378)	95 (424)
Bending Moment @ top clamp: 100 mph, ft.*lb (N.M)	210 (285)	248 (336)
Projected Area, ft <sup>2</sup> (m <sup>2</sup> )	3.0 (0.28)	3.5 (0.33)
Mounting Information Mast O.D., in. (mm)	2.38 (60)	2.88 ( 0.73)

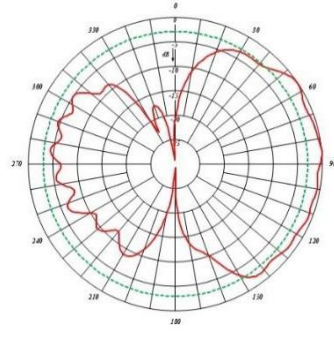
# BASE STATION ANTENNAS



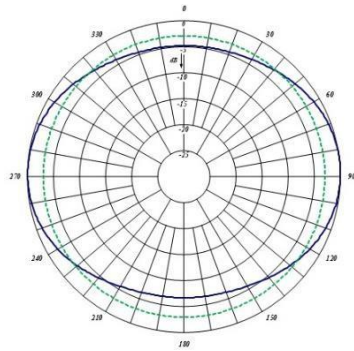
F-3647-HDBTM- 1/2 wave



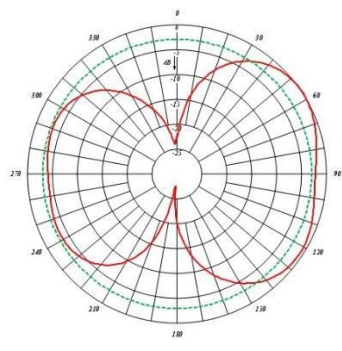
UHF: horizontal pattern



UHF: vertical pattern



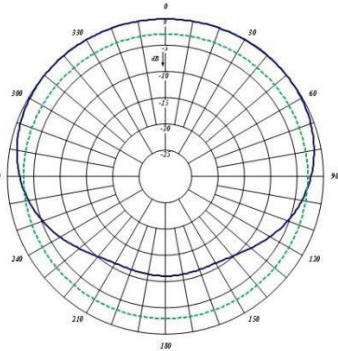
VHF: horizontal pattern



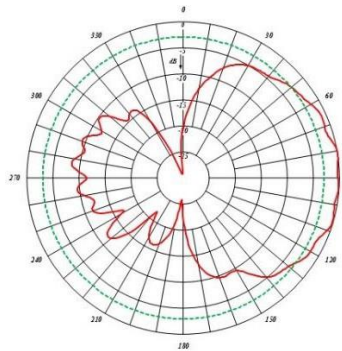
VHF: vertical pattern



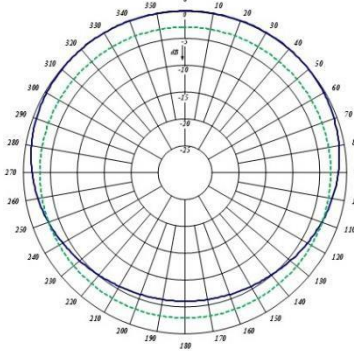
F-3647-HDBTM 1/4 wave



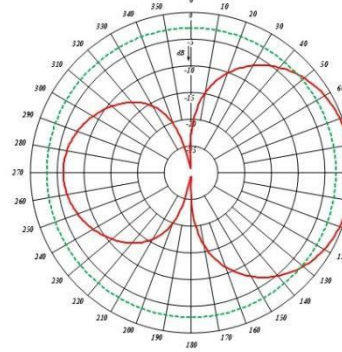
UHF: horizontal pattern



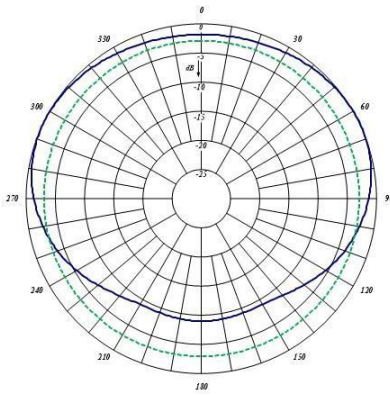
UHF: vertical pattern



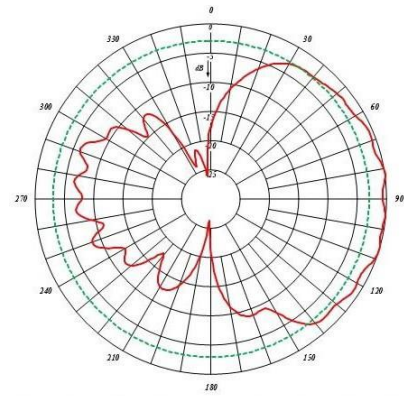
VHF: horizontal pattern



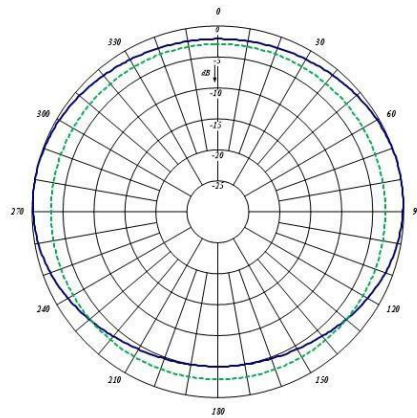
VHF: vertical pattern



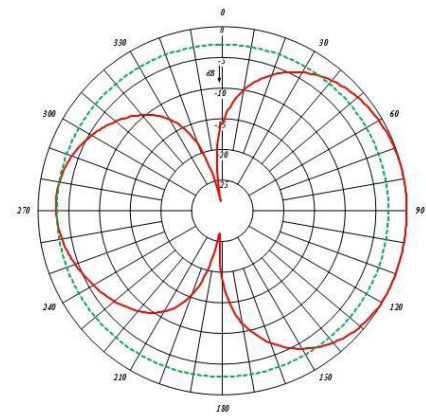
UHF: horizontal pattern



UHF: vertical pattern



VHF: horizontal pattern



VHF: vertical pattern

F-364-HDBTM- 3/8 wave