

Wide Band Dual Antenna



138-174 & 406-512 MHz

F-3647

The F-3647 is a wide band 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 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 / bi | Offset/bi |
| Power Rating, Watts | 200 | 150 |
| Nominal Impedance, Ohms | 50 | 50 |
| Lightning Protection | DC Ground | DC Ground |
| Standard Termination | Type N Male | Type N Male |
| Temperature Range | -40 to +60 C° | |



| Mechanical Specifications | F-3647 Reg | F-3647 HD |
|---|------------|--------------|
| 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, ft² (m²) | 3.0 (0.28) | 3.5 (0.33) |
| Mounting Information Mast O.D., in. (mm) | 2.38 (60) | 2.88 (0.73) |