## UHF EXPOSED DIPOLE



## (2)771-70HTP40\*1-1/4

The (2)771-70HTP40\*1-1/4 is a Wide Band, Low PIM and Heavy Duty Welded UHF Antenna. It is a double array antenna designed for multi-coupled systems. All our antennas can be customized to your particular applications. Our antennas can be configured for side mount or top mount. This antenna is configured for top mount. The (2)771-70HTP40\*1-1/4 antenna has internal cabling and fixed dipole-mast spacing.

HEAVY

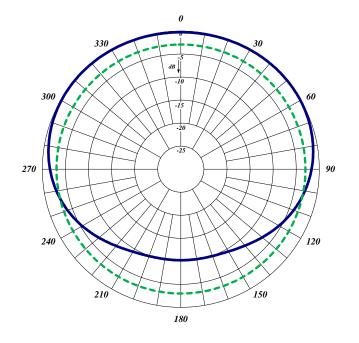
- Low VSWR version with maximum gain over specified frequency.
- This antenna is 1/4 wavelength spacing offering offset radiation pattern.
- Standard connector for Low PIM version is 7/16 DIN-Male. Optional 4.3-10 is also available.

PolarizationVerticalPatternOffsetPower Rating, Watts75Nominal Impedance, Ohms50Lightning ProtectionDC GroundTemperature Range-40 to +60 C°Standard TerminationDIN 7/16, 4.3/10 connector available upon requestPIM150 dBc; two 20W carriersMechanical Specifications(2)771 -70HTP40*1-1/4Length, in (mm)109 (2590)Width, in (mm)10 (254)		
Nominal Gain, dBd   2.5     Number of Dipoles   (2) 1     Bandwidth 1.5:1 VSWR, MHz   50     Isolation, dB   40     Polarization   Vertical     Pattern   Offset     Power Rating, Watts   75     Nominal Impedance, Ohms   50     Lightning Protection   DC Ground     Temperature Range   -40 to +60 C°     Standard Termination   DIN 7/16, 4.3/10 connector available upon request     PIM   150 dBc; two 20W carriers     Mechanical Specifications   (2)771 -70HTP40*1-1/4     Length, in (mm)   100 (2590)     Width, in (mm)   109 (2590)     Width, in (mm)   100 (254)     Weight, Ibs. (kg)   18 (8.2)     Rated Wind Velocity, No Ice, mph (km/h)   180 (290)     Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)   160 (257)     Lateral Thrust @ 100 mph, wind, Ibs. (N)   53.4 (260)     Bending Moment @ top clamp: 100 mph, ft.*lb (N*m)   125 (169)	Electrical Specifications	(2)771 -70HTP40*1-1/4
Number of Dipoles(2) 1Bandwidth 1.5:1 VSWR, MHz50Isolation, dB40PolarizationVerticalPolarizationOffsetPatternOffsetPower Rating, Watts75Nominal Impedance, Ohms50Lightning ProtectionDC GroundTemperature Range-40 to +60 C°Standard TerminationDIN 7/16, 4.3/10 connector available upon requestPIM150 dBc; two 20W carriersMechanical Specifications(2)771 -70HTP40*1-1/4Length, in (mm)109 (2590)Width, in (mm)100 (254)Weight, Ibs. (kg)18 (8.2)Rated Wind Velocity, No Ice, mph (km/h)180 (290)Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)160 (257)Lateral Thrust @ 100 mph, wind, Ibs. (N)53.4 (260)Bending Moment @ top clamp: 100 mph, ft.*lb (N*m)1.98 (0.184)	Frequency Range, MHz	380-430
Bandwidth 1.5:1 VSWR, MHz50Isolation, dB40PolarizationVerticalPatternOffsetPower Rating, Watts75Nominal Impedance, Ohms50Lightning ProtectionDC GroundTemperature Range-40 to +60 C°Standard TerminationDIN 7/16, 4.3/10 connector available upon requestPIM150 dBc; two 20W carriersMechanical Specifications(2)771 -70HTP40*1-1/4Length, in (mm)109 (2590)Width, in (mm)100 (254)Weight, Ibs. (kg)18 (8.2)Rated Wind Velocity, No Ice, mph (km/h)160 (257)Lateral Thrust @ 100 mph, wind, Ibs. (N)53.4 (260)Bending Moment @ top clamp: 100 mph, ft.*lb (N*m)1.25 (169)Projected Area, ft² (m²)1.98 (0.184)	Nominal Gain, dBd	2.5
Isolation, dB40PolarizationVerticalPotternOffsetPower Rating, Watts75Nominal Impedance, Ohms50Lightning ProtectionDC GroundTemperature Range-40 to +60 C°Standard TerminationDIN 7/16, 4.3/10 connector available upon requestPIM150 dBc; two 20W carriersMechanical Specifications(2)771-70HTP40*1-1/4Length, in (mm)100 (2590)Width, in (mm)100 (2590)Width, in (mm)180 (290)Rated Wind Velocity, No Ice, mph (km/h)160 (257)Lateral Thrust @ 100 mph, wind, Ibs. (N)53.4 (260)Bending Moment @ top clamp: 100 mph, ft.*lb (N*m)1.25 (169)Projected Area, ft² (m²)1.98 (0.184)	Number of Dipoles	(2) 1
PolarizationVerticalPotternOffsetPower Rating, Watts75Nominal Impedance, Ohms50Lightning ProtectionDC GroundTemperature Range-40 to +60 C°Standard TerminationDIN 7/16, 4.3/10 connector available upon requestPIM150 dBc; two 20W carriersMechanical Specifications(2)771 -70HTP40*1-1/4Length, in (mm)100 (2590)Width, in (mm)100 (2590)Width, in (mm)188 (8.2)Rated Wind Velocity, No Ice, mph (km/h)180 (290)Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)153.4 (260)Bending Moment @ top clamp: 100 mph, ft.*lb (N*m)125 (169)Projected Area, ft² (m²)1.98 (0.184)	Bandwidth 1.5:1 VSWR, MHz	50
PatternOffsetPower Rating, Watts75Nominal Impedance, Ohms50Lightning ProtectionDC GroundTemperature Range-40 to +60 C°Standard TerminationDIN 7/16, 4.3/10 connector available upon requestPIM150 dBc; two 20W carriersMechanical Specifications(2)771-70HTP40*1-1/4Length, in (mm)109 (2590)Width, in (mm)100 (254)Width, in (mm)108 (8.2)Rated Wind Velocity, No Ice, mph (km/h)180 (290)Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)160 (257)Lateral Thrust @ 100 mph, wind, lbs. (N)53.4 (260)Bending Moment @ top clamp: 100 mph, ft.*lb (N*m)125 (169)Projected Area, ft2 (m2)1.98 (0.184)	Isolation, dB	40
Power Rating, Watts   75     Nominal Impedance, Ohms   50     Lightning Protection   DC Ground     Temperature Range   -40 to +60 C°     Standard Termination   DIN 7/16, 4.3/10 connector available upon request     PIM   150 dBc; two 20W carriers     Mechanical Specifications   (2)771-70HTP40*1-1/4     Length, in (mm)   100 (2590)     Width, in (mm)   100 (254)     Weight, Ibs. (kg)   188 (8.2)     Rated Wind Velocity, No Ice, mph (km/h)   180 (290)     Lateral Thrust @ 100 mph, wind, Ibs. (N)   53.4 (260)     Bending Moment @ top clamp: 100 mph, ft.*Ib (N*m)   1.25 (169)     Projected Area, ft <sup>2</sup> (m <sup>2</sup> )   1.98 (0.184)	Polarization	Vertical
Nominal Impedance, Ohms50Lightning ProtectionDC GroundTemperature Range-40 to +60 C°Standard TerminationDIN 7/16, 4.3/10 connector available upon requestPIM150 dBc; two 20W carriersMechanical Specifications(2)771 -70HTP40*1-1/4Length, in (mm)109 (2590)Width, in (mm)10 (254)Weight, Ibs. (kg)18 (8.2)Rated Wind Velocity, No Ice, mph (km/h)180 (290)Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)160 (257)Lateral Thrust @ 100 mph, wind, Ibs. (N)53.4 (260)Bending Moment @ top clamp: 100 mph, ft.*Ib (N*m)1.25 (169)Projected Area, ft² (m²)1.98 (0.184)	Pattern	Offset
Lightning ProtectionDC GroundTemperature Range-40 to +60 C°Standard TerminationDIN 7/16, 4.3/10 connector available upon requestPIM150 dBc; two 20W carriersMechanical Specifications(2)771 -70HTP40*1-1/4Length, in (mm)109 (2590)Width, in (mm)100 (254)Weight, Ibs. (kg)18 (8.2)Rated Wind Velocity, No Ice, mph (km/h)180 (290)Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)160 (257)Lateral Thrust @ 100 mph, wind, Ibs. (N)53.4 (260)Bending Moment @ top clamp: 100 mph, ft.*Ib (N*m)125 (169)Projected Area, ft² (m²)1.98 (0.184)	Power Rating, Watts	75
Temperature Range-40 to +60 C°Standard TerminationDIN 7/16, 4.3/10 connector available upon requestPIM150 dBc; two 20W carriersMechanical Specifications(2)771 -70HTP40*1-1/4Length, in (mm)109 (2590)Width, in (mm)10 (254)Weight, Ibs. (kg)18 (8.2)Rated Wind Velocity, No Ice, mph (km/h)180 (290)Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)160 (257)Lateral Thrust @ 100 mph, wind, Ibs. (N)53.4 (260)Bending Moment @ top clamp: 100 mph, ft.*Ib (N*m)125 (169)Projected Area, ft² (m²)1.98 (0.184)	Nominal Impedance, Ohms	50
Standard TerminationDIN 7/16, 4.3/10 connector available upon requestPIM150 dBc; two 20W carriersMechanical Specifications(2)771 -70HTP40*1-1/4Length, in (mm)109 (2590)Width, in (mm)100 (254)Weight, Ibs. (kg)18 (8.2)Rated Wind Velocity, No Ice, mph (km/h)180 (290)Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)160 (257)Lateral Thrust @ 100 mph, wind, Ibs. (N)53.4 (260)Bending Moment @ top clamp: 100 mph, ft.*Ib (N*m)125 (169)Projected Area, ft² (m²)1.98 (0.184)	Lightning Protection	DC Ground
And	Temperature Range	-40 to +60 C°
Mechanical Specifications   (2)771-70HTP40*1-1/4     Length, in (mm)   109 (2590)     Width, in (mm)   10 (254)     Weight, lbs. (kg)   18 (8.2)     Rated Wind Velocity, No Ice, mph (km/h)   180 (290)     Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)   160 (257)     Lateral Thrust @ 100 mph, wind, lbs. (N)   53.4 (260)     Bending Moment @ top clamp: 100 mph, ft.*lb (N*m)   125 (169)     Projected Area, ft <sup>2</sup> (m <sup>2</sup> )   1.98 (0.184)	Standard Termination	
Length, in (mm) 109 (2590)   Width, in (mm) 10 (254)   Weight, lbs. (kg) 18 (8.2)   Rated Wind Velocity, No Ice, mph (km/h) 180 (290)   Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h) 160 (257)   Lateral Thrust @ 100 mph, wind, lbs. (N) 53.4 (260)   Bending Moment @ top clamp: 100 mph, ft.*lb (N*m) 125 (169)   Projected Area, ft² (m²) 1.98 (0.184)	PIM	150 dBc; two 20W carriers
Width, in (mm) 10 (254)   Weight, lbs. (kg) 18 (8.2)   Rated Wind Velocity, No Ice, mph (km/h) 180 (290)   Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h) 160 (257)   Lateral Thrust @ 100 mph, wind, lbs. (N) 53.4 (260)   Bending Moment @ top clamp: 100 mph, ft.*lb (N*m) 125 (169)   Projected Area, ft² (m²) 1.98 (0.184)	Mechanical Specifications	(2)771 -70HTP40*1-1/4
Weight, lbs. (kg) 18 (8.2)   Rated Wind Velocity, No Ice, mph (km/h) 180 (290)   Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h) 160 (257)   Lateral Thrust @ 100 mph, wind, lbs. (N) 53.4 (260)   Bending Moment @ top clamp: 100 mph, ft.*lb (N*m) 125 (169)   Projected Area, ft² (m²) 1.98 (0.184)	Length, in (mm)	109 (2590)
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Lateral Thrust @ 100 mph, wind, lbs. (N) 53.4 (260)   Bending Moment @ top clamp: 100 mph, ft.*lb (N*m) 125 (169)   Projected Area, ft² (m²) 1.98 (0.184)	Rated Wind Velocity, No Ice, mph (km/h)	180 (290)
Bending Moment @ top clamp: 100 mph, ft.*lb (N*m)   125 (169)     Projected Area, ft² (m²)   1.98 (0.184)	Rated Wind Velocity, 0.5" (13mm) ice, mph (km/h)	160 (257)
Projected Area, ft <sup>2</sup> (m <sup>2</sup> ) 1.98 (0.184)	Lateral Thrust @ 100 mph, wind, lbs. (N)	53.4 (260)
	Bending Moment @ top clamp: 100 mph, ft.*lb (N*m)	125 (169)
Mounting Information Mast O.D. (mm) 2.38 (60)	Projected Area, ft <sup>2</sup> (m <sup>2</sup> )	1.98 (0.184)
	Mounting Information Mast O.D. (mm)	2.38 (60)

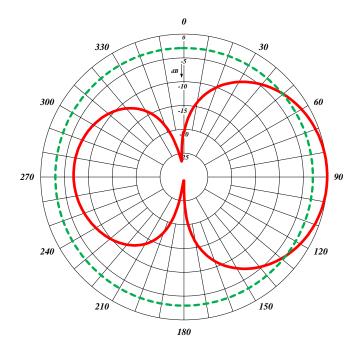


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Vertical Radiation Pattern



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