

# SMD Series

## SIDE MOUNTED DIPOLE ANTENNA

806-960 MHz



The SMD8-90-U side mount dipole is an extremely broad bandwidth antenna recommended for local area coverage or short haul RF link applications.

The antenna is internally DC grounded for lightning protection and the reduction of precipitation static noise.

- Provides either directional or largely omnidirectional radiation pattern
- All welded and alodined aluminium construction
- DC grounded for lightning protection and dissipation of static noise
- Supplied complete with UNV clamp for mounting



### Electrical Specifications

Model Number	SMD8-90-U
Nominal Gain $dBd(dBi)$	0(2.1) but varies with mounting arrangements
Frequency $MHz$	806 - 960
Tuned Bandwidth $MHz$	154
VSWR	<1.5 :1
Nominal Impedance $\Omega$	50
Vertical Beamwidth°	Typically 85° at $\frac{1}{4} \lambda$ antenna - mast spacing
Horizontal Beamwidth°	Typically 213° at $\frac{1}{4} \lambda$ antenna - mast spacing
Input Power $Watts$	200

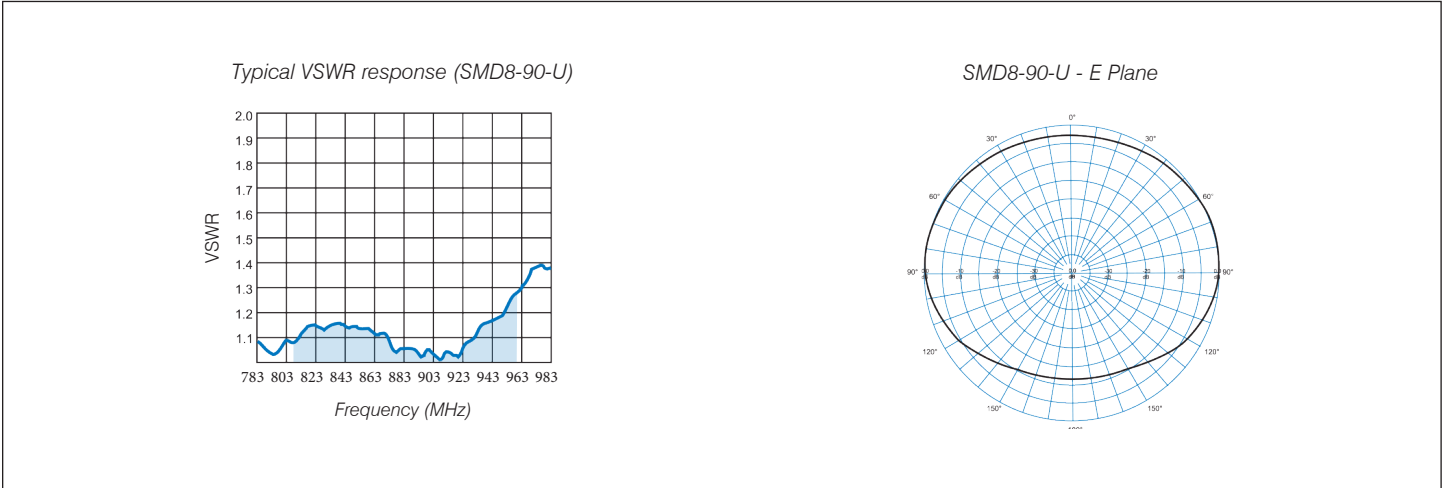
### Mechanical Specifications

Model Number	SMD8-90-U	
Construction & Configuration	All welded aluminium with alodined finish	
Length <i>inches</i>	5.8 high by 11.8 long	
Weight <i>lbs</i>	0.44	
Termination	N Female with short 9142 cable tail	
Mounting Area <i>inches</i>	4" x 1" diam. alodined aluminium	
Projected area $ft^2$	No ice	0.11
	with ice	0.24
Wind Load (Thrust) @ 100mph <i>lbs</i>	2.47	
Wind Gust Rating <i>mph</i>	>149	
Torque @ 100mph <i>ft-lbs</i>	0.74	

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### Antenna Clamp - Supplied with these antennas



Lightweight right angle galvanised clamp.

Clamp	UNV
Weight per clamp <i>lbs</i>	0.9
Body Finish	Galvanised
Fastener Finish	Galvanised
Min. boom size <i>inch</i>	0.8
Max.boom size <i>inch</i>	2.0
Application	Mount small antennas in 90° arrangement

**UNV CLAMP**