

## 7553xxx

Single Band | Omni-Directional | Colinear | V-Pol | 360° | 5.1 dBi | Fixed Electrical Tilt

- Rugged and durable UHF colinear antenna designed for Telemetry, Paging and Trunked Radio applications
- Housed inside a a high-strength glass fibre shroud
- Includes an integrated mounting clamp allowing easy installation on poles or horizontal rails
- Robust antenna design insures reliable operation in harsh environmental conditions

### Ordering Options

Replace "xxx" in the model number with one of the options below to signify the desired frequency band

	Model Number	Frequency Band
Model Number Options (xxx)	7553865	840-890 MHz
	7553893	860-925 MHz

### Electrical Characteristics

Frequency Band	See Options Listed Above	
Polarization	Vertical	
Horizontal Beamwidth	360°	
Vertical Beamwidth	35°	
Gain	3.0 dBd (5.1 dBi)	
Impedance	50Ω	
VSWR	< 1.5:1	
Power Rating	150 W	
Connector Type	N Female + 0.5 m RG213 cable	
Lightning Protection	DC Grounded	

### Mechanical Characteristics

Shroud Material / Color	Glass Fibre (Ø21mm) / White	
Mounting Section Material	Aluminium	
Dimensions (Length)	730 mm	28.7 in
Weight without Mounting Brackets	0.5 kg	1.1 lbs
Wind Load @ 160 km/hr (100 mph)	35 N	7.9 lbf

### Mounting Options

Mounting Bracket Kit	Integral mounting clamp and V bolts for pipe or horizontal rail	
Fits Pipe/Rail Diameter	38-50 mm	1.5-2.0 in

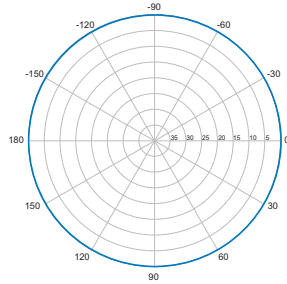
See pages 3 & 4 for additional mounting information.



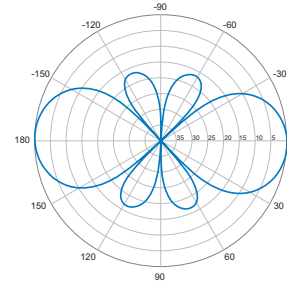
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Antenna Patterns

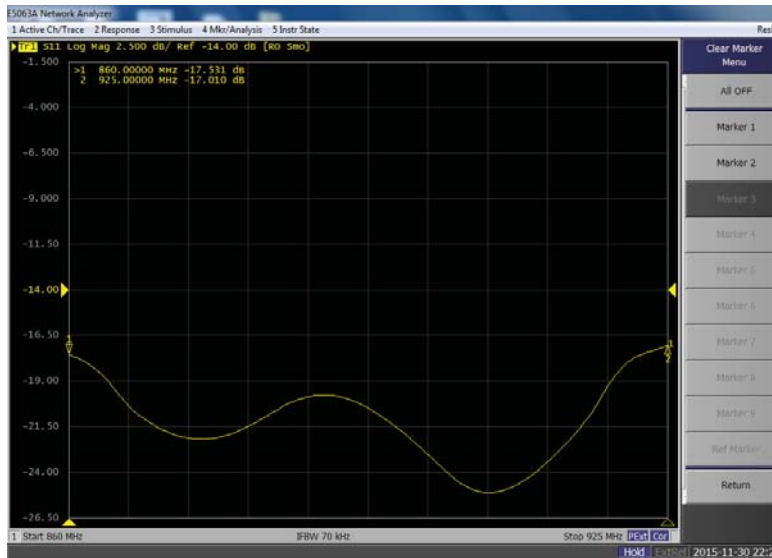


Horizontal



Vertical

Return Loss



Gain Chart



Note: Return loss, gain and patterns are for the 860-925 MHz model

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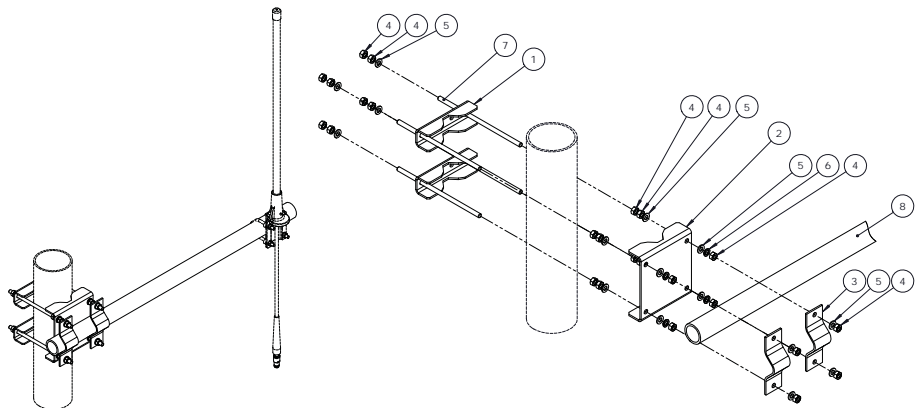
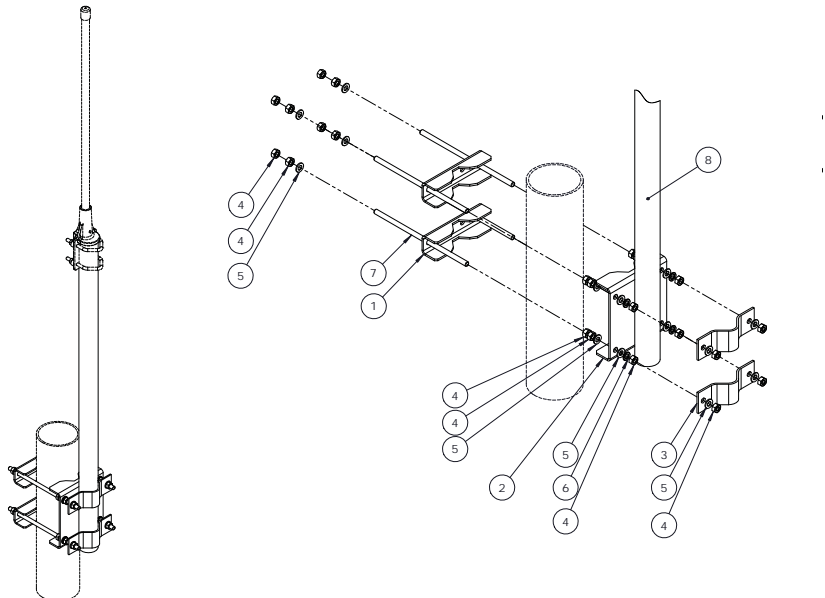
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Assembly & Mounting Instructions			
Please read these instructions fully before commencing			
Tools Required	13 mm A/F Spanner		
Mounting (see mounting variations section)	Securely fix mast clamp to vertical or horizontal mounting rail as required. Tighten fixings to required torque (M8 = 20Nm). Ensure adequate lightning protection. Envelope is provided by installation.		
Connection	Ensure connector is clean and dry. Mate with feeder cable connector. Cover with plastic sleeve and seal in customer approved manner. Ensure cable routing is not stressed. Cable minimum bend radius is 51.5 mm.		
Maintenance			
Annual VSWR and visual inspection for loose or missing parts should ensure stated performance is maintained.			
Mounting Variations			
Standard Mounting (Included)			
		<b>Vertical Mounting Tube</b> (Connector passes through middle of tube)	<b>Horizontal Mounting Tube</b>
		<b>Deck Mounting</b> (With connector passing to below deck)	<b>Deck Mounting</b> (With connector remaining above deck)
<b>Parts Identification</b>			

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Mounting Variations	Model Number	Orientation	Assembly																									
Optional Mounting Arrangement (ordered separately)	XSL9256087	Horizontal																										
		Vertical																										
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