

VERSION: 3.5



#### **PRODUCT DESCRIPTION:**

The DIPL-A0035 is a wideband vertically polarised omnidirectional antenna for receive and transmit applications. This antenna operates over the 20 to 3600 MHz frequency band with a VSWR of less than 3:1 over 95% of the band.

This unit can be operated as a DIPL-A0035-01, with highpower transmit capabilities, by removing the whips. The DIPL-A0035-01 can also be purchased separately.

The whip sections can be quickly detached and stowed in a bag provided for rapid antenna transport and redeployment if needed.

The antenna (both DIPL-A0035 and -01/-02 variants) is provided with a short, isolated, mounting pole for direct mount to a mast or structure.

A kit of spare whip sections can be purchased separately to convert a DIPL-A0035-01 to a DIPL-A0035 or replace whip sections that may have been damaged while in use.

## Wideband Omni-Directional VP Antenna

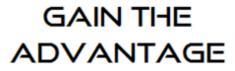
### 20 – 3600 MHz Product Code: DIPL-A0035

#### SPECIFICATIONS:

Product codes:			
DIPL-A0035	Full-band antenna, including I	ow frequency whip sections for	
	receive only applications		
DIPL-A0035-01	Transmit/receive antenna with	nout whip sections. Reduced	
	frequency range.		
DIPL-A0035-02	DIPL-A0035-01 specified for maritime use		
	(wind survival 182 km/h)		
DIPL-A0035-03	Kit of low frequency whip sections to convert DIPL-A0035-		
	01/-02 to DIPL-A0035 or as use as spares.		
Electrical:	DIPL-A0035	DIPL-A0035-01/-02	
Frequency range	20 – 3000 MHz	100 – 3000 MHz	
r requency range	3000 – 3600 MHz (with	3000 – 3600 MHz (with	
	increased H-plane pattern	increased H-plane pattern	
	ripple)	ripple)	
VSWR	< 3:1 over 95% of band	< 3:1 over 95% of band	
Nominal input imp.	50 Ω	50 Ω	
Connector	N-type female	N-type female	
Power handling	Receive only	500 W (100 – 1000 MHz)	
. ener nanding		150 W (100 – 3600 MHz)	
Gain (max)	See graph	See graph	
Polarisation	Linear, vertical	Linear, vertical	
Mechanical:	DIPL-A0035	DIPL-A0035-01/-02	
Dimensions (I x w)	6 m x 2 m	0.9 m x 0.43 m (ant. only)	
		1.9 m x 0.43 m (incl. mount)	
Total mass	24 ± 0.5 kg	10 kg (antenna)	
	-	3 kg (mounting pole)	
Passivation	MIL-STD paint & powder	MIL-STD paint & powder	
	coat	coat	
Colour	Per request	Per request	
Material	Aluminium, fibreglass and	Aluminium, fibreglass	
Maximutha	stainless steel		
Mounting	Al. flange 8 x 2/2/ M* bolts	Al. flange 8 x 2/2/ M* bolts	
Eff. wind area	± 0.63 m <sup>2</sup>	± 0.22 m²	
Environmental: de	signed to meet the following s	specifications	
Wind survival	160 km/h		
Temp operational	- 37 °C (no icing) to + 65 °C		
Temp storage	- 46 °C (no icing) to + 71 °C		
Corrosion	Appropriate anti-corrosion measures are taken in the design		
	of antennas for harsh environmental conditions		
Degree of	MIL-STD-810E, method 506.3, procedure I		
Enclosure	· · ·		
Humidity	MIL-STD-810E, method 507.4		
Fungus	MIL-STD-810E, method 508.5		
Salt fog	MIL-STD-810E, method 509.4		
Vibration (ground	MIL-STD-810E, method 514.4. cat 1		
transportation)			
Vibration	MIL-STD-810E type 1		
(operation)			
Shock	MIL-STD-810E, method 516.4	4, procedure I (20 g / 10 ms	
	load in x, y and z direction)	load in x, y and z direction)	

#### **PRODUCT FEATURES:**

- Wideband, lightweight and waterproof
- Omni-directional azimuth pattern
- Distributed loading is used to prevent elevation radiation pattern break up
- Quick assembly
  - cyntony customer attuned





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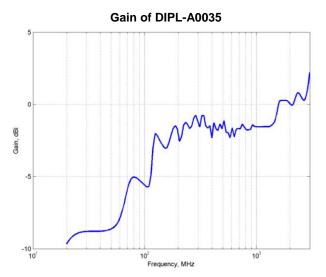
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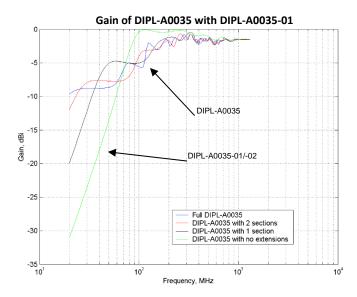
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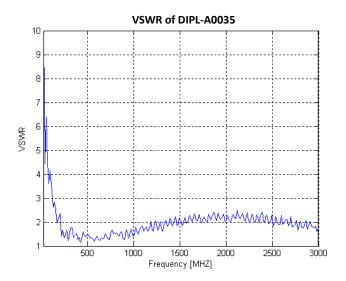
### 20 – 3600 MHz

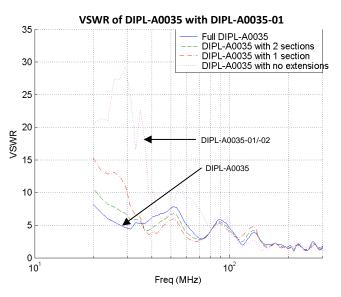
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### **VSWR AND GAIN GRAPHS:**



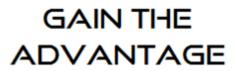












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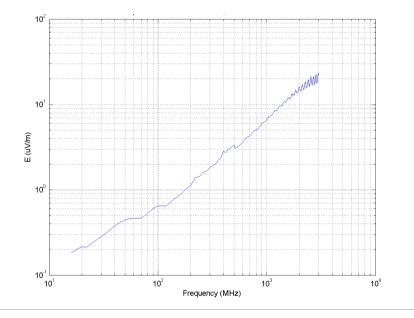
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### 20 – 3600 MHz

### Product Code: DIPL-A0035

### SENSITIVITY GRAPH:

Sensitivity of the DIPL-A0035 antenna. This graph shows the minimum signal that can be detected by the antenna, in a bandwidth of 1 kHz, with a receiver noise figure of 9 dB.



#### **PRODUCT IMAGES:**



DIPL-A0035-01/-02

DIPL-A0035-03

DIPL-A0035

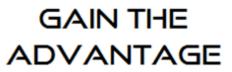
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