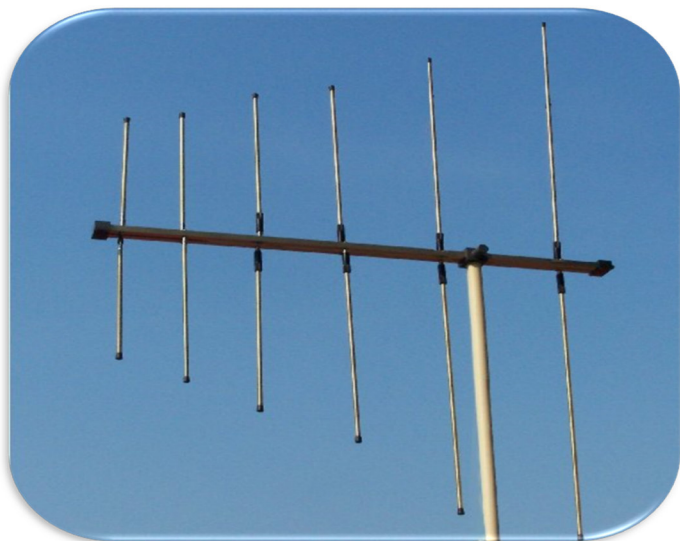




# Antenna type ARL87R/F108XZ

DIRECTIONAL BROADBAND ANTENNA

**87.5 ÷ 108** MHz



## ELECTRICAL DATA

<b>Frequency range A</b>	MHz	87,5÷108
<b>Bandwidth</b>	MHz	20.5
<b>Gain max .</b>	dBi	7.5
<b>Return loss</b>	dB	≥ -14
<b>VSWR</b>		≤ 1.5:1
<b>Nominal impedance</b>	Ω	50
<b>Polarization</b>	Ω	V/H
<b>H beamwidth 88 Mhz</b>	-3 dB	140°
<b>H beamwidth 98 Mhz</b>	-3 dB	120°
<b>H beamwidth 103 Mhz</b>	-3 dB	120°
<b>E beamwidth 88 Mhz</b>	-3 dB	70°
<b>E beamwidth 98 Mhz</b>	-3 dB	80°
<b>E beamwidth 103 Mhz</b>	-3 dB	70°
<b>Max Power</b>	W	300 W
<b>Connector</b>		Nf
<b>Lightning protection</b>	All metal parts are D.C. grounded	

## MECHANICAL DATA

<b>Dimension length</b>	mm	length1420Xh1760x130
<b>Elements numbers</b>		6
<b>Weight without clamp</b>	kg	3.7
<b>Wind surface</b>	m <sup>2</sup>	Front 0.03 side 0.13
<b>Front wind load</b>	Kg	1.1 ( 25 m/s )
<b>Side wind load</b>	Kg	4.9 ( 25 m/s )
<b>Mounting +/- 90°</b>	mm	standard polarizer Ø 30

## MATERIALS

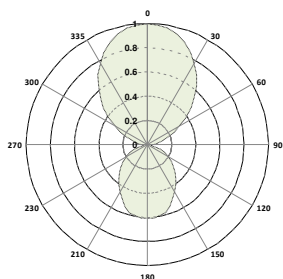
Anticorodal alluminium - Brass - Teflon  
- Polyvinyl chloride - RoHS compliance

## ACCESSORIES

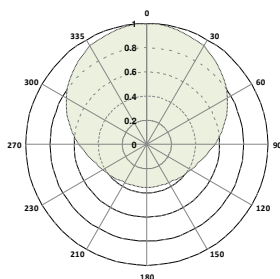
<b>SUPIS01</b>	Isolation fiberglass pole Ø35 x 1000
<b>BAG87108</b>	Transport bag

## ORDERING AND PACKAGING INFORMATIONS

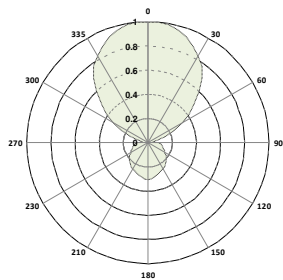
ARL87 <b>F</b> 108XZ	With unscrewed elements
ARL87 <b>R</b> 108XZ	With folding elements
<b>PACKAGING</b> mm.	1500x200x200 / weight 5 Kg without clamps



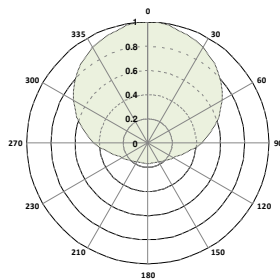
88 Mhz E plane



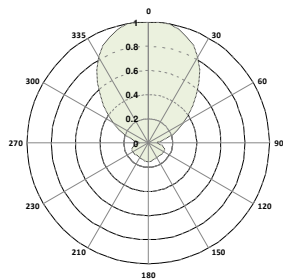
88 Mhz H plane



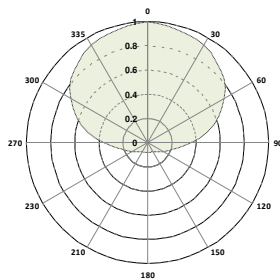
98 Mhz E plane



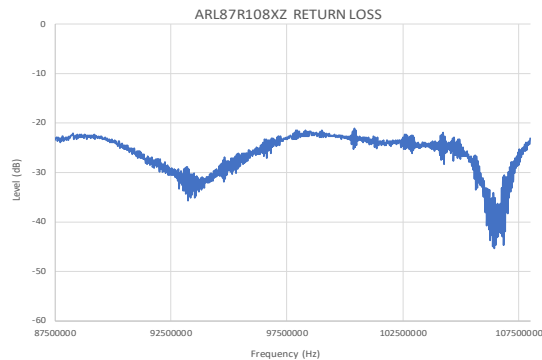
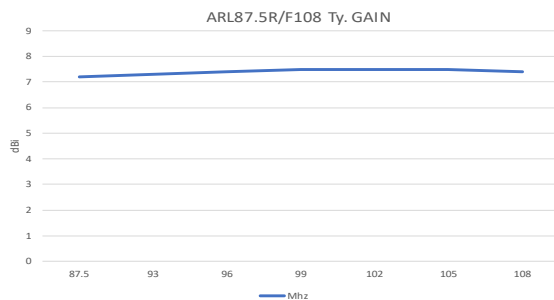
98 Mhz H plane



103 Mhz E plane



103 Mhz H plane



In relazione alle normative in materia di responsabilità sui prodotti, segnaliamo che nel caso di utilizzo delle nostre antenne in condizioni operative particolari, quali ad esempio forti sollecitazioni dinamiche dovute a vento, vibrazioni o deformazioni delle strutture di sostegno, si possono verificare rotture del prodotto stesso e/o la caduta a terra. L'installatore che deve essere altamente qualificato, deve conoscere le normative nazionali di sicurezza in vigore, deve seguire le informazioni contenute nelle nostre istruzioni, deve verificare sempre l'adeguatezza del prodotto stesso alle condizioni operative del sito di installazione e deve controllare l'installazione operando la manutenzione periodica dell'impianto. --- In relation to the laws concerning product liability, we notify you that in case you use our antennas in severe operative conditions such as, for example, strong wind, vibrations or distortions of the support structure, the product can break and/or fall down. The person who install the product must know the national security law in force, must follow the product instructions, must check that the product is compatible with the installation site and must control the installation with periodical maintenance.

Updating  
02/2017

PROTEL reserves the right to amend or modify the products described in this brochure at any time without prior notification in order to improve the design and supply the best possible product.

WWW.PROTEL.IT Via Magellano 3ab6-20090 CESANO BOSCONI (MI) protel@protel.it

copyright©

