



# Antenna type ARL100R/F500XZ

DIRECTIONAL BROADBAND ANTENNA

**100 ÷ 500** MHz



## ELECTRICAL DATA

<b>Frequency range A</b>	MHz	100÷500
<b>Bandwidth</b>	MHz	400
<b>Gain max .</b>	dBi	7
<b>Return loss max</b>	dB	≥ -10
<b>VSWR max</b>		≤ 1.9:1
<b>Nominal impedance</b>	Ω	50
<b>Polarization</b>	Ω	V/H
<b>H beamwidth 400 Mhz</b>	-3 dB	100°
<b>H beamwidth 250 Mhz</b>	-3 dB	110°
<b>H beamwidth 150 Mhz</b>	-3 dB	110°
<b>E beamwidth 400 Mhz</b>	-3 dB	70°
<b>E beamwidth 250 Mhz</b>	-3 dB	60°
<b>E beamwidth 150 Mhz</b>	-3 dB	80°
<b>Max Power (peak power)</b>	W	100 W ( 500 )
<b>Connector</b>		Nf
<b>Lightning protection</b>	All metal parts are D.C. grounded	

## MECHANICAL DATA

<b>Dimension length</b>	mm	1700Xh1600x130
<b>Elements numbers</b>		18
<b>Weight</b>	kg	6.2
<b>Wind surface</b>	m <sup>2</sup>	Front 0.02 side 0.12
<b>Front wind load</b>	Kg	0.8 ( 25 m/s )
<b>Side wind load</b>	Kg	4.1 ( 25 m/s )
<b>Mounting +/- 90°</b>	mm	mechanical polarizer Ø 30

## MATERIALS

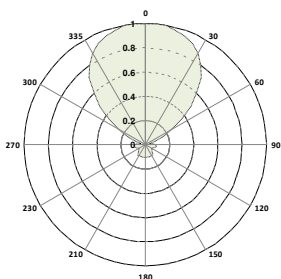
Anticorodal aluminium - Brass - Teflon  
- Polyvinyl chloride - RoHS compliance-

## ACCESSORIES

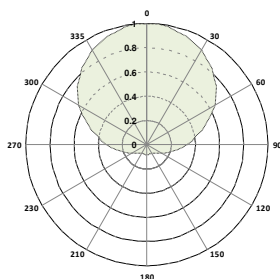
**BAG100F500** Transport bag

## ORDERING AND PACKAGING INFORMATION

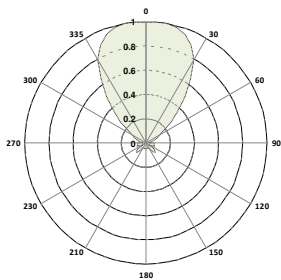
ARL100 <b>F</b> 500XZ	With unscrewed elements
ARL100 <b>R</b> 500XZ	With folding elements
<b>PACKAGING mm.</b>	1800x400x400 / weight 9 Kg



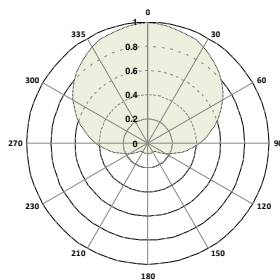
150 Mhz E plane



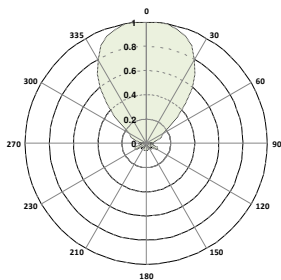
150 Mhz H plane



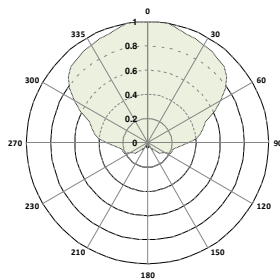
250 Mhz E plane



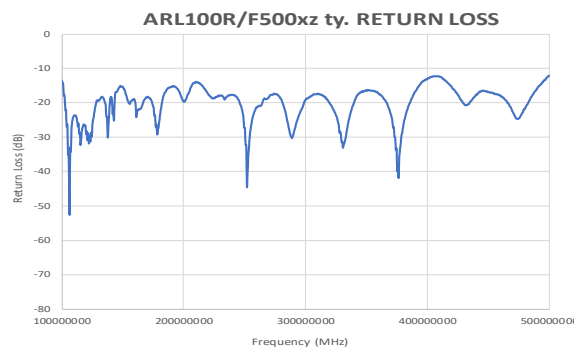
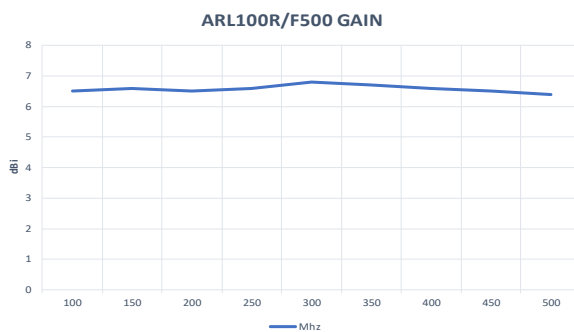
250 Mhz H plane



400 Mhz E plane



400Mhz 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 be skilled, 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  
06/2018

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.

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