



# Antenna type ARL80R/F1500XZ

LOG - PERIODIC DIRECTIONAL BROADBAND ANTENNA

## 80 ÷ 1500 MHz



### ELECTRICAL DATA

<b>Frequency range A</b>	MHz	80 ÷ 1500
<b>Bandwidth</b>	MHz	1420
<b>Gain max typ.</b>	dBi	8.5
<b>Return loss</b>	dB	≥ -11
<b>VSWR</b>		≤ 1.8:1
<b>Nominal impedance</b>	Ω	50
<b>Polarization</b>	Ω	V/H
<b>front-to-back ratio</b>	-dB	≥ 15
<b>H beamwidth 100 Mhz</b>	-3 dB	120°
<b>H beamwidth 400 Mhz</b>	-3 dB	120°
<b>H beamwidth 1200Mhz</b>	-3 dB	90°
<b>E beamwidth 100 Mhz</b>	-3 dB	60°
<b>E beamwidth 400 Mhz</b>	-3 dB	70°
<b>E beamwidth 1200 Mhz</b>	-3 dB	90°
<b>Max Power</b>	W	200 W
<b>Connector</b>		Nf
<b>Lightning protection</b>	All metal parts are D.C. grounded	

### MECHANICAL DATA

<b>Dimension length</b>	mm	1680Xh1930x130
<b>Elements numbers</b>		28
<b>Weight without clamp</b>	kg	4.5
<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</b>	mm	standard polarizer Ø 30

### MATERIALS

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

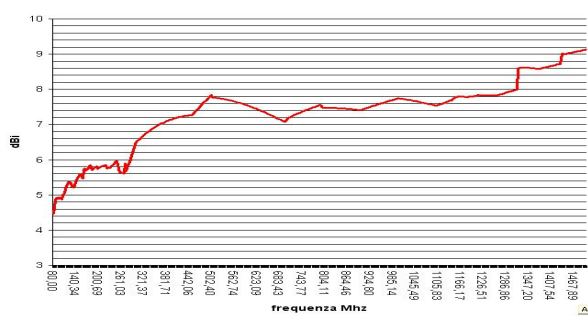
### ACCESSORIES

<b>SUPIS01</b>	Isolation fiberglass pole ø 35x1000
<b>BAG801500</b>	Transport bag

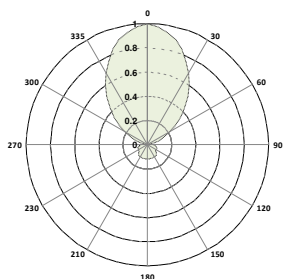
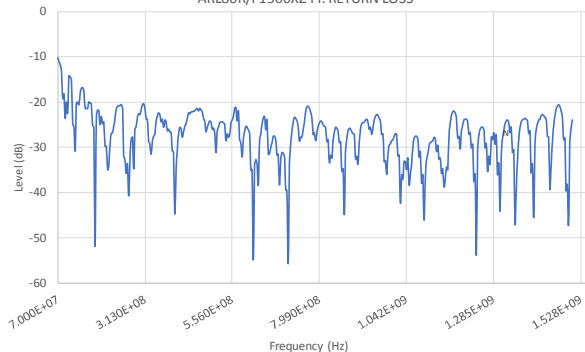
### ORDERING AND PACKAGING INFORMATIONS

ARL80 <b>F</b> 1500XZ	With unscrewed elements
ARL80 <b>R</b> 1500XZ	With folding elements
<b>PACKAGING</b> mm.	1900x200x200 / weight 7 Kg without clamps

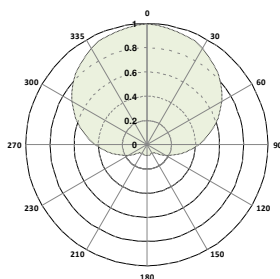
ARL80F1500XZ typical gain dBi



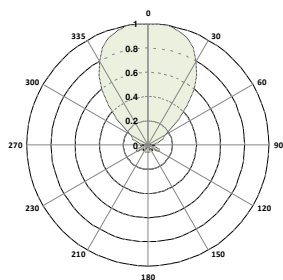
ARL80R/F1500XZ TY. RETURN LOSS



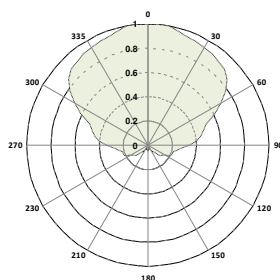
100 Mhz E plane



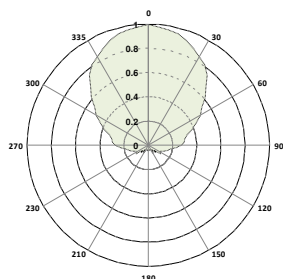
100 Mhz H plane



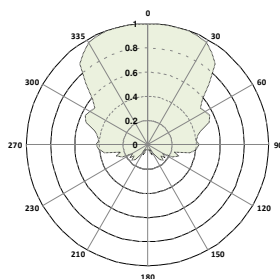
400 Mhz E plane



400 Mhz H plane



1200 Mhz E plane



1200 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 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  
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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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