

## «Perfo ox» series of Filters and MultiPlexers

### DiPlexer PB-DP500, 1.8 / 3.5MHz\*, 500Wats ICAS\*\*

\* 80 meter band: 3,500 ÷ 4,000Mhz

\*\* Intermittent Commercial and Amateur Service, (CW - 50% Duty cycle)

SKU: PB-DP500-1.8/3.5

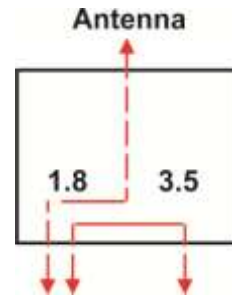
#### Typical specifications:

Subject to change without prior notice, **please see attached actual specification as measured**

- Impedance: 50 Ohms
- Maximum ICAS power per band port: 500 W
- Maximum ICAS power at antenna port: 1000 W, (please see [Application notes](#))
- VSWR: typical  $\leq 1 : 1,2$
- Return loss:  $\geq 20$ db
- Size: 200 x 155 x 75 mm / 7,9" x 6,1" x 2,9"
- Net weight:  $\leq 0,7$  kg / 1,5 lbs

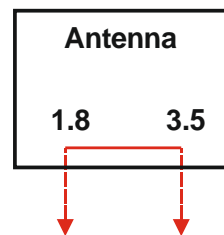
**Band INPUT to Antenna OUTPUT**, insertion loss (S11) and adjacent bands attenuation (S21), worst possible numbers at the band edges rounded to 5db, unused port terminated 50 ohms:

Transmit	Receive level, db.:	
	1.8	3.5
1.8	$\leq -0.15$	$\geq -20$
3.5 - 4.0	$\geq -20$	$\leq -0.15$



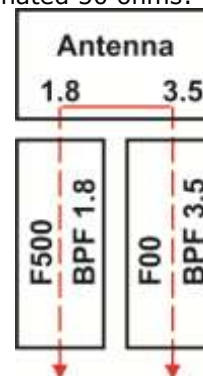
**Band to Band, Isolation from port to port (S21)**, worst possible numbers at the band edges rounded to 5db, Antenna and unused port terminated 50 ohms:

Transmit	Receive level, db.:	
	1.8	3.5
1.8	-	$\geq -20$
3.5 - 4.0	$\geq -20$	-



**Band INPUT to Antenna OUTPUT, insertion loss (S11) and Band to Band Isolation from port to port (S21), with Band Pass Filters «Perfo Box-500»**, worst possible numbers at the band edges rounded to 5db, Antenna port and unused ports terminated 50 ohms:

Transmit	Receive level, db.:	
	1.8	3.5
1.8	-	$\geq -90$
3.5 - 4.0	$\geq -80$	-



QC:

15 December, 2020

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Tel.: 007 918 557 45 07 (WhatsApp, Viber)

E-mail: ra6lbs@gmail.com

Volgodonsk, 347382, Russian Federation

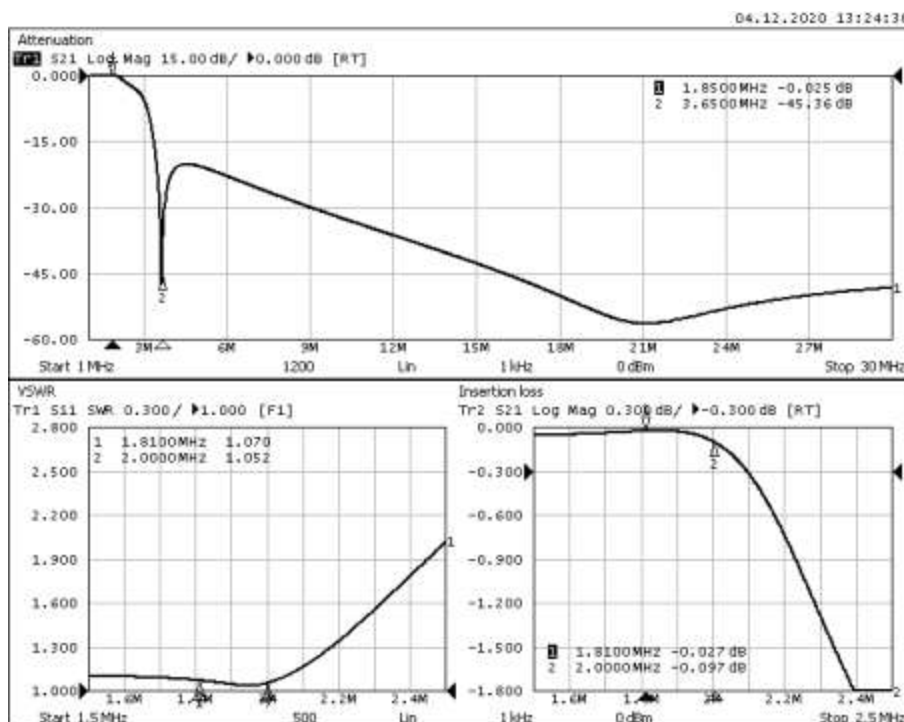
[www.lowbandsystems.com](http://www.lowbandsystems.com)

## «Perfox» series of Filters and MultiPlexers

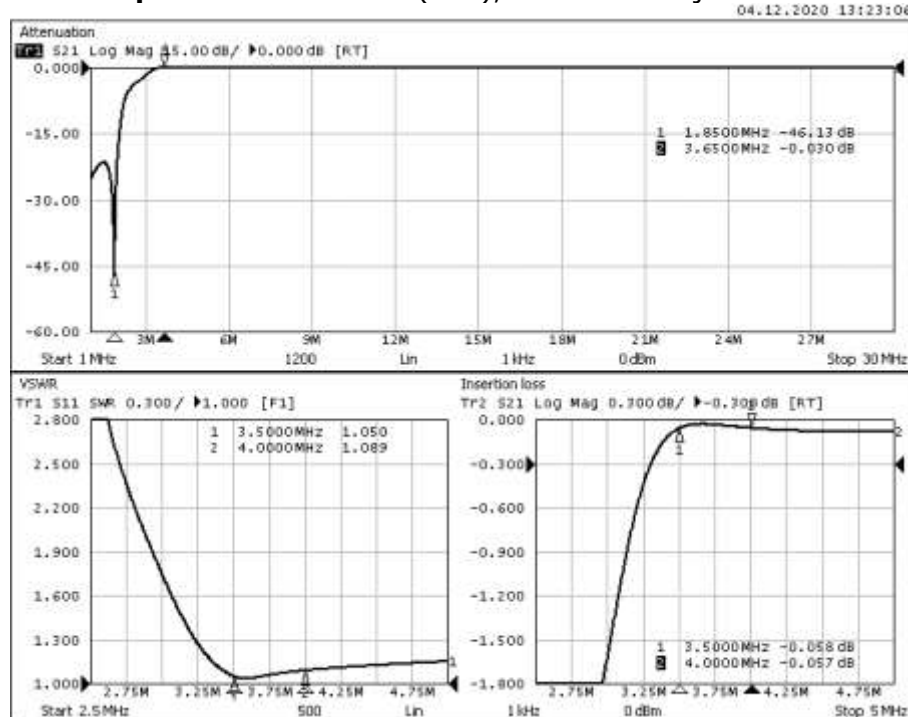
### DiPlexer PB-DP500, 1.8 / 3.5MHz, 500Watts ICAS

Specification as measured, serial number #1220-458:

**1.8 MHz port:** Insertion loss (S11), VSWR and adjacent bands attenuation (S21) to antenna port



**3.5 MHz port:** Insertion loss (S11), VSWR and adjacent bands attenuation (S21) to antenna port



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E-mail: ra6lbs@gmail.com

Volgodonsk, 347382, Russian Federation

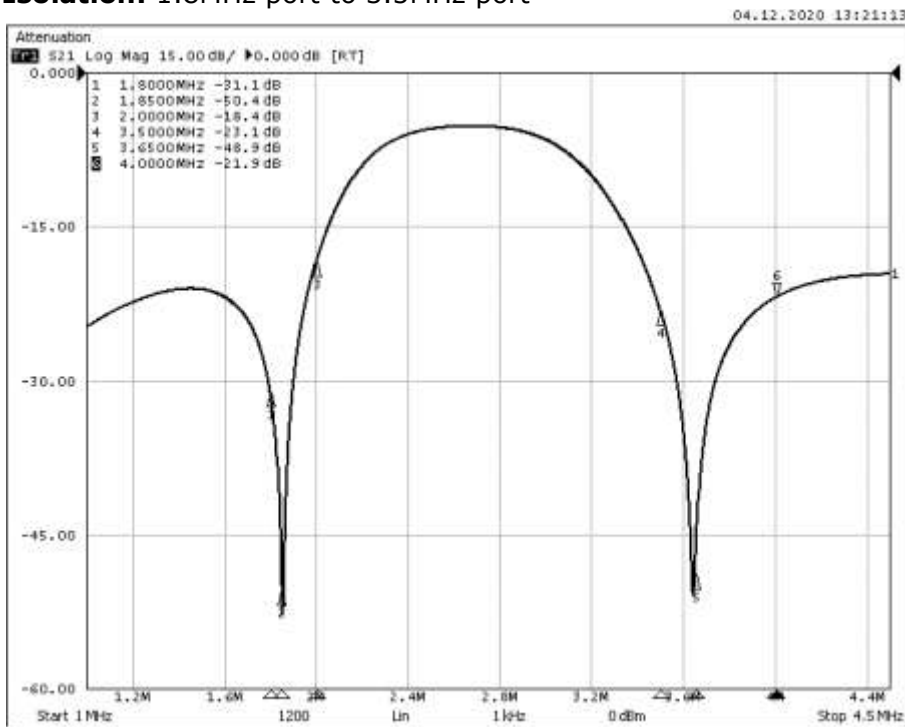
[www.lowbandsystems.com](http://www.lowbandsystems.com)

## «Perfox» series of Filters and MultiPlexers

### DiPlexer PB-DP500, 1.8 / 3.5MHz, 500Watts ICAS

Specification as measured, serial number #1220-458:

Isolation: 1.8MHz port to 3.5MHz port



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