

«Perfo Box» series of Filters and MultiPlexers

TriPlexer PB-TP500, 3.5-7-14MHz*, 500Watts ICAS**

* 80 meter band: 3,500 ÷ 4,000Mhz; 40 meter band: 7,000 ÷ 7,400Mhz

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

SKU: PB-TP500804020

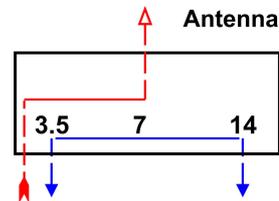
Typical specifications:

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

- Impedance: 50 Ohms
- Maximum ICAS power per band port: 500W
- Maximum ICAS power at antenna port: 1000W, (please see [Application notes](#))
- VSWR: ≤1,2:1
- Return loss: ≥20db
- Size: 270 x 155 x 75 mm / 10,6" x 6,1" x 2,0"
- Net weight: ≤0,95 kg / 2,1 lbs

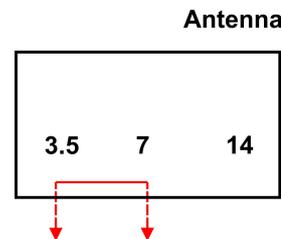
Band INPUT to Antenna OUTPUT, insertion loss (S11) and adjacent bands attenuation (S21), worst possible numbers **at the band edges** rounded to 0,05db / 5db, unused port terminated 50 ohms:

Transmit	Receive level, db.:		
	3.5	7	14
3.5 - 4.0	≤ -0.2	≥ -30	≥ -60
7	≥ -20	≤ -0.15	≥ -30
14	≥ -20	≥ -25	≤ -0.15



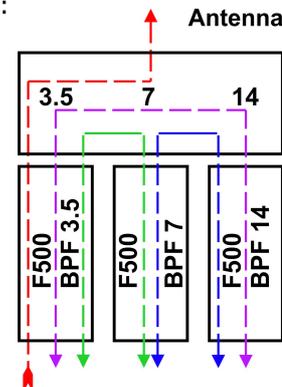
Band to Band, Isolation from port to port (S21), worst possible numbers **at the band edges** rounded to 5db, Antenna and unused port terminated 50 ohms:

Transmit	Receive level, db.:		
	3.5	7	14
3.5 - 4.0	-	≥ -30	≥ -55
7	≥ -20	-	≥ -30
14	≥ -20	≥ -25	-



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 0,05db / 5db, Antenna port and unused ports terminated 50 ohms:

Transmit	Receive level, db.:		
	3.5	7	14
3.5 - 4.0	≤ -0.45	≥ -90	≥ -90
7	≥ -65	≤ -0.4	≥ -90
14	≥ -90	≥ -95	≤ -0.4



QC:

10 March, 2020

Page 1 of 4



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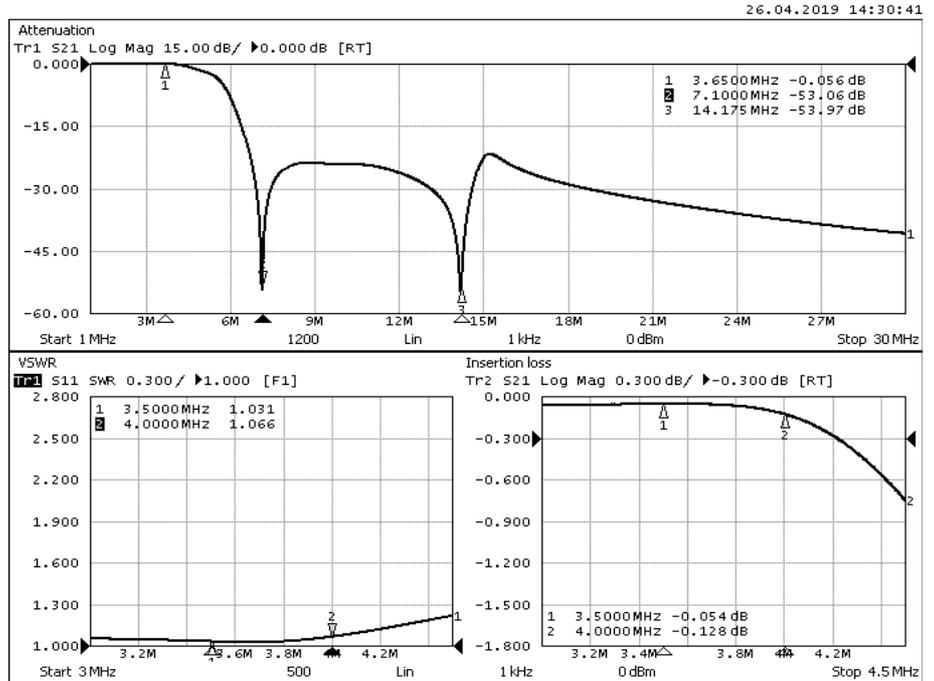
www.lowbandsystems.com

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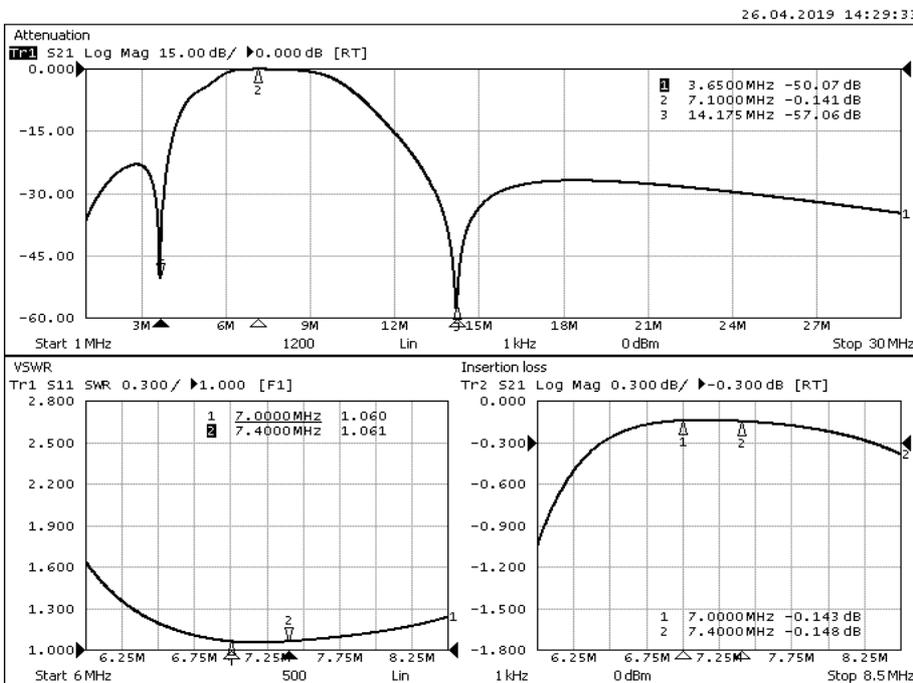
TriPlexer PB-TP500, 3.5-7-14MHz, 500Watts ICAS

Specification as measured, serial number #0419-033:

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



7MHz port: Insertion loss (S11), VSWR and adjacent bands attenuation (S21) to antenna port



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Page 2 of 4



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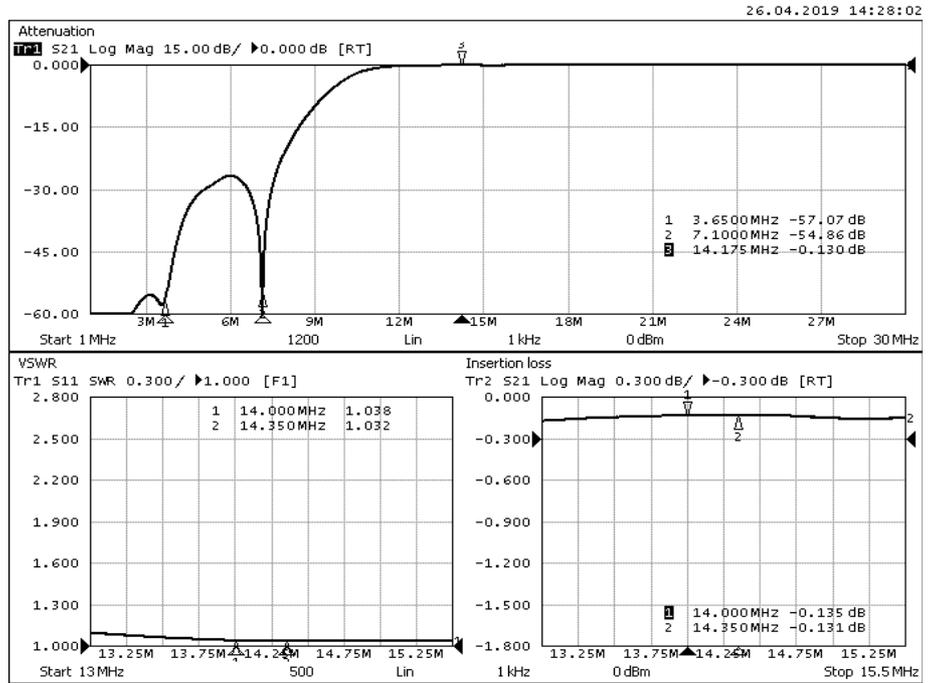
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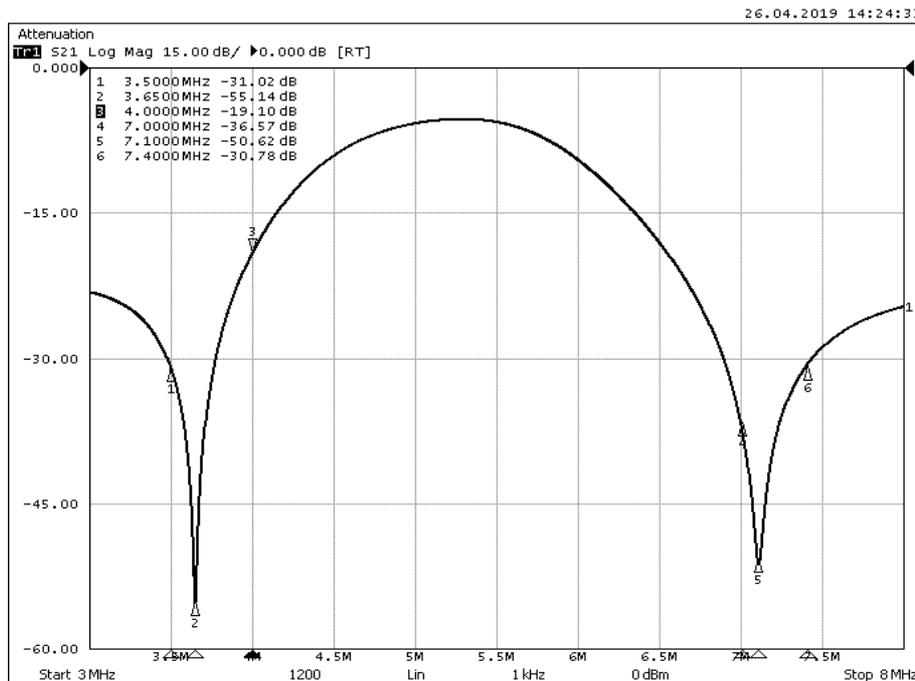
TriPlexer PB-TP500, 3.5-7-14MHz, 500Watts ICAS

Specification as measured, serial number #0419-033:

14MHz port: Insertion loss (S11), VSWR and adjacent bands attenuation (S21) to antenna port



Isolation: 3.5MHz port to 7MHz port



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Page 3 of 4



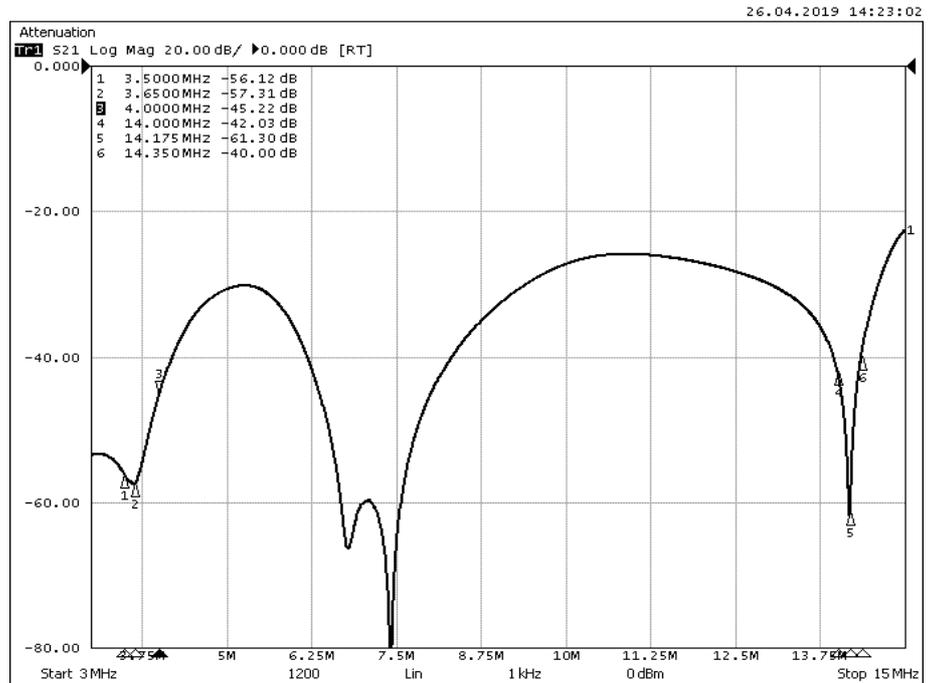
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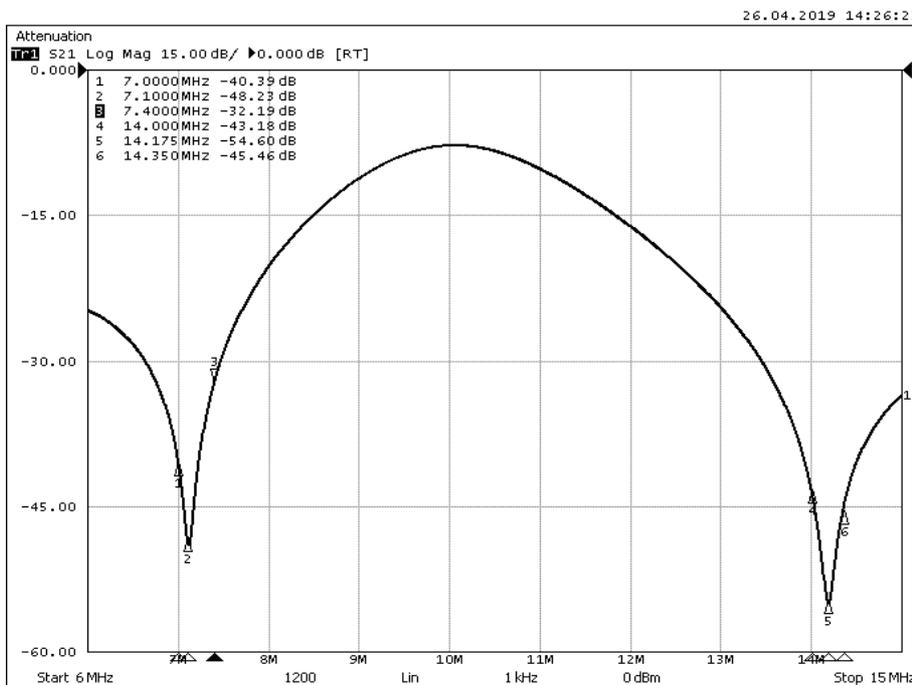
TriPlexer PB-TP500, 3.5-7-14MHz, 500Watts ICAS

Specification as measured, serial number #0419-033:

Isolation: 3.5MHz port to 14MHz port



Isolation: 7MHz port to 14MHz port



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Page 4 of 4

