

«Perfo Box» series of Filters and MultiPlexers

PentaPlexer-II PB-PP1500, 14-18-21-24-28MHz*, 1500Watts ICAS**

* 10 meter band: 28,000 ÷ 29,000Mhz

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

SKU: PB-PP1500

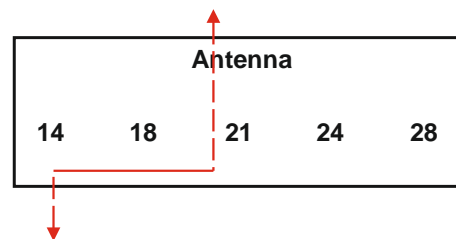
Typical specifications

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

- Impedance: 50 Ohms
- Maximum ICAS power per band port: 1500W
- Maximum ICAS power at antenna port: 3000W, (please see [Application notes](#))
- VSWR: ≤1,2:1
- Return loss: ≥20db
- Size: 380 x 325 x 120 mm / 14,9" x 12,8" x 4,7"
- Net weight, kg/lbs.: ≤4,3 kg / 9,5 lbs.

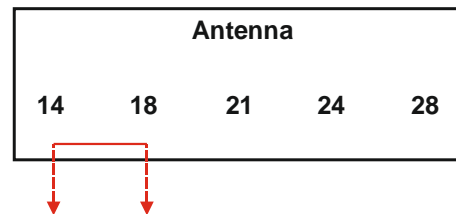
Band INPUT to Antenna OUTPUT, insertion loss (S11) and adjacent bands attenuation (S21), worst possible numbers at the band edges rounded to 5db, unused port terminated 50 ohms:

Transmit	Receive level, db.:				
	14	18	21	24	28
14	≤-0,2	≥-30	≥-25	≥-40	≥-35
18	≥-25	≤-0,4	≥-20	≥-45	≥-45
21	≥-40	≥-25	≤-0,5	≥-40	≥-25
24	≥-30	≥-20	≥-35	≤-0,5	≥-20
28	≥-35	≥-35	≥-40	≥-30	≤-0,4



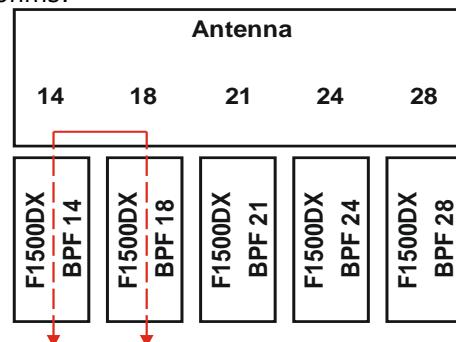
Band to Band, Isolation from port to port (S21), worst possible numbers at the band edges rounded to 5db, Antenna and unused port terminated 50 ohms:

Transmit	Receive level, db.:				
	14	18	21	24	28
14	-	≥-30	≥-25	≥-40	≥-35
18	≥-25	-	≥-20	≥-45	≥-40
21	≥-40	≥-30	-	≥-35	≥-20
24	≥-25	≥-20	≥-30	-	≥-20
28	≥-30	≥-35	≥-40	≥-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-1500»**, worst possible numbers at the band edges rounded to 0,05db / 5db, Antenna port and unused ports terminated 50 ohms:

Transmit	Receive level, db.:				
	14	18	21	24	28
14	-	≥-80	≥-90	≥-90	≥-100
18	≥-75	-	≥-60	≥-95	≥-100
21	≥-70	≥-70	-	≥-105	≥-95
24	≥-80	≥-65	≥-90	-	≥-55
28	≥-100	≥-105	≥-105	≥-75	-



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

E-mail: ra6lbs@gmail.com

Volgodonsk, 347382, Russian Federation

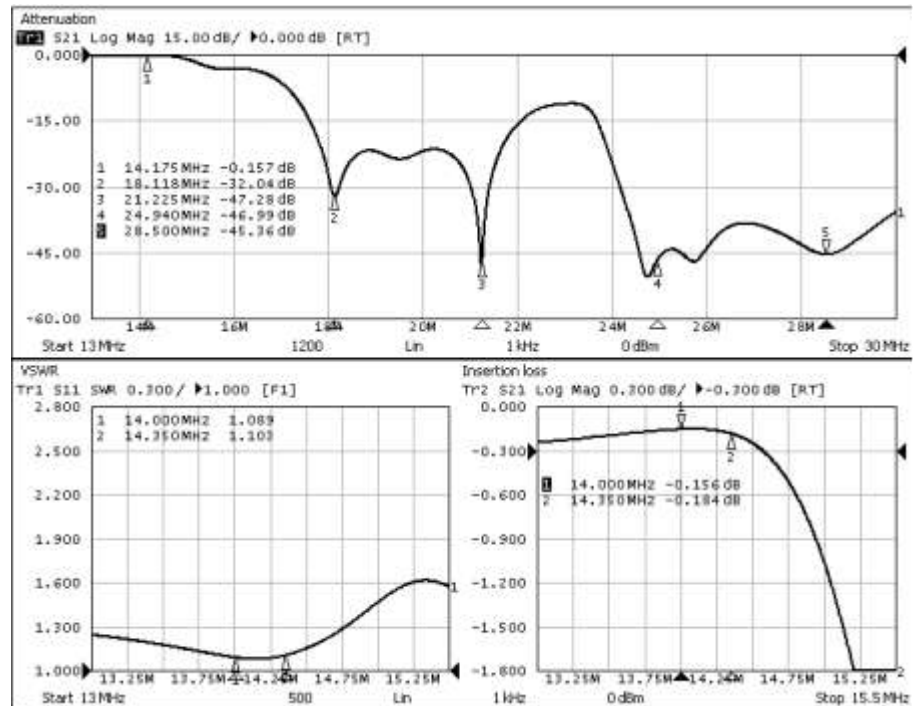
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«Perfo Box» series of Filters and MultiPlexers

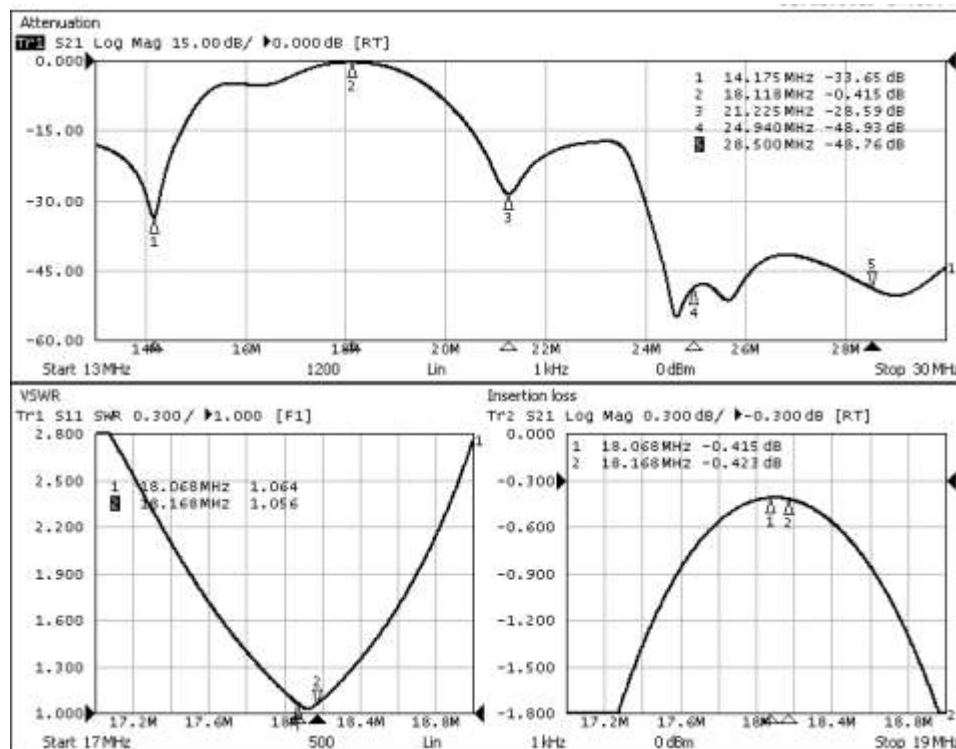
PentaPlexer-II PB-PP1500, 14-18-21-24-28MHz

Serial number #0119-004, as measured:

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



18MHz port: Insertion loss (S11), VSWR and adjacent bands attenuation (S21) to antenna port



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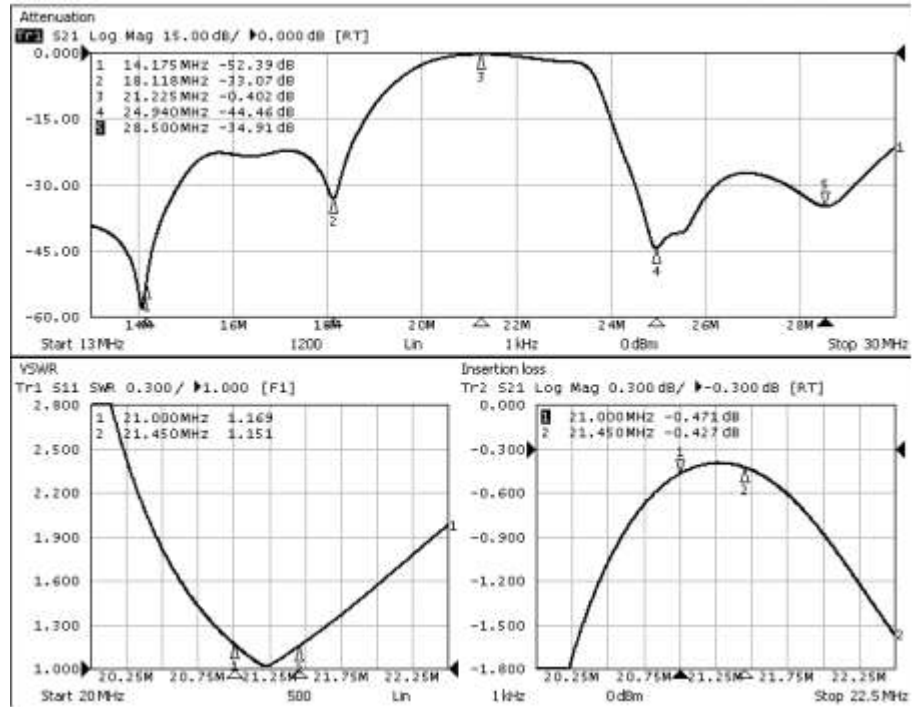


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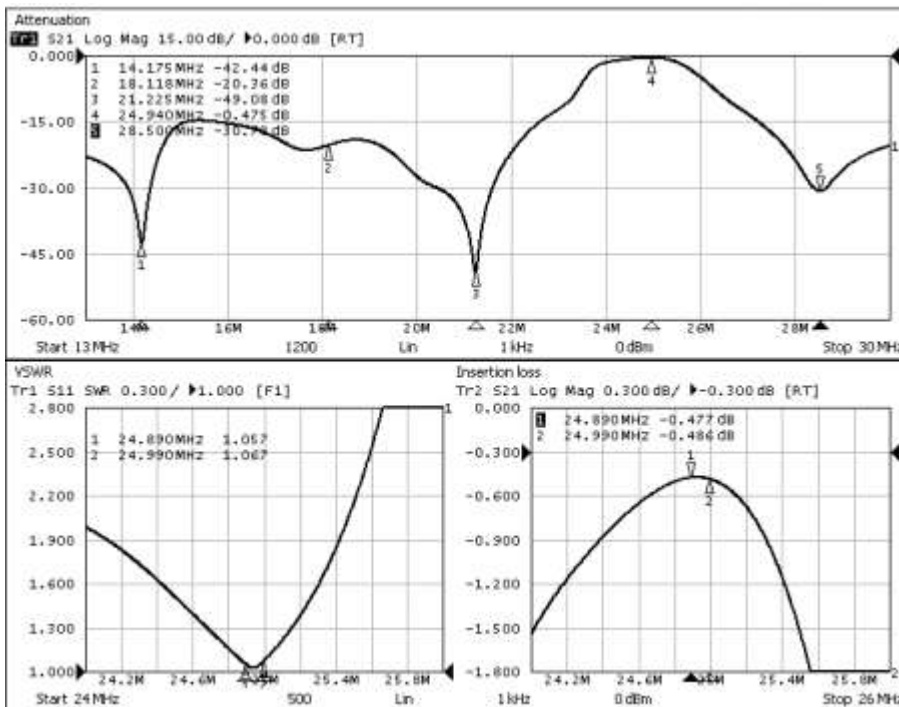
PentaPlexer-II PB-PP1500, 14-18-21-24-28MHz

Serial number #0119-004, as measured:

21MHz port: Insertion loss (S11), VSWR and adjacent bands attenuation (S21) to antenna port



24MHz port: Insertion loss (S11), VSWR and adjacent bands attenuation (S21) to antenna port



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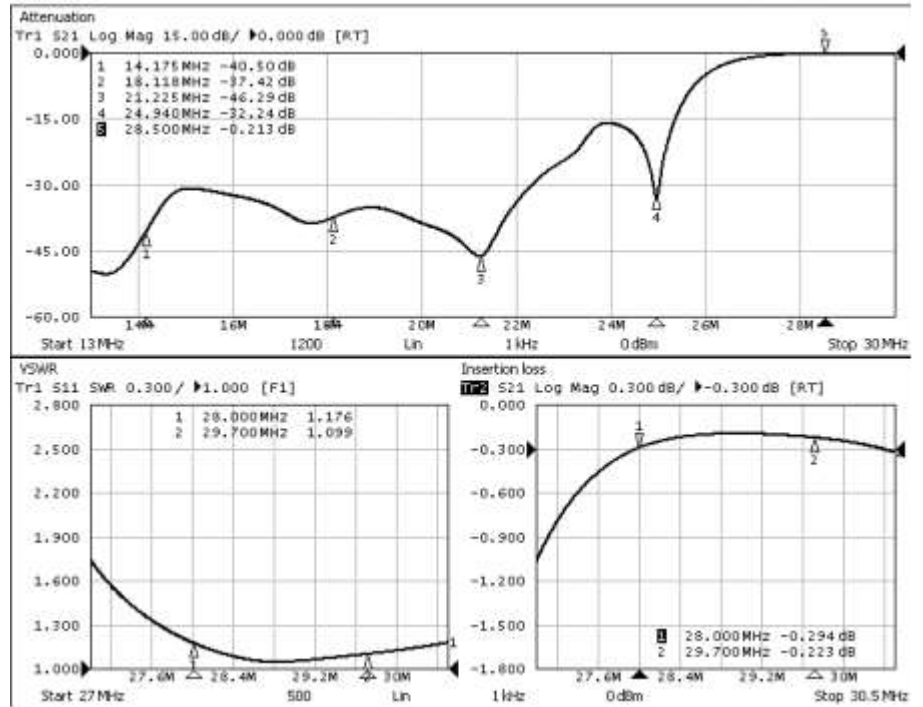


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PentaPlexer-II PB-PP1500, 14-18-21-24-28MHz

Serial number #0119-004, as measured:

28MHz port: Insertion loss (S11), VSWR and adjacent bands attenuation (S21) to antenna port



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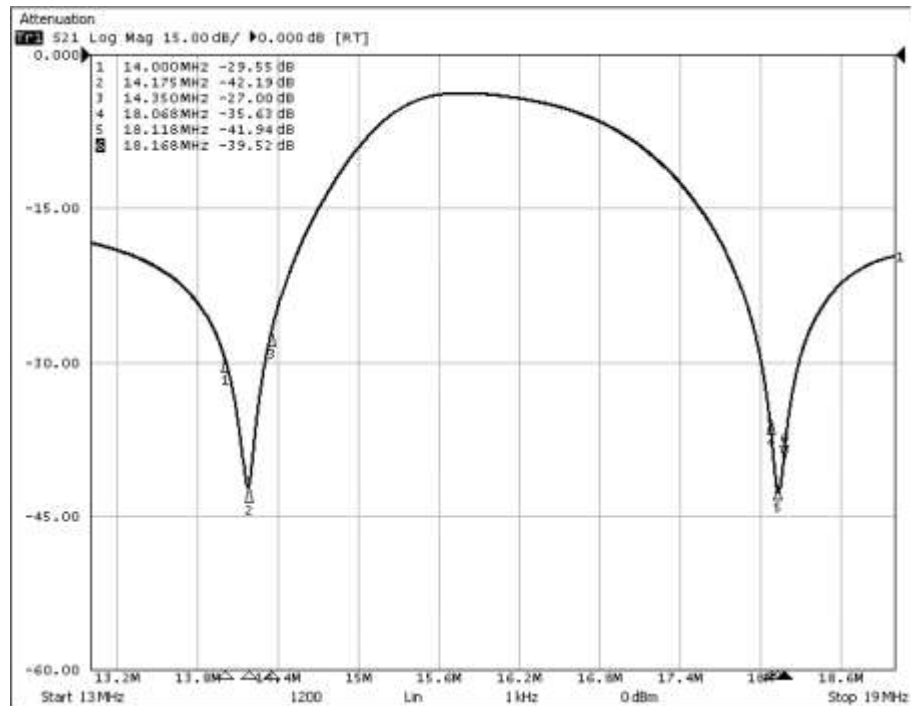


«Perfo Box» series of Filters and MultiPlexers

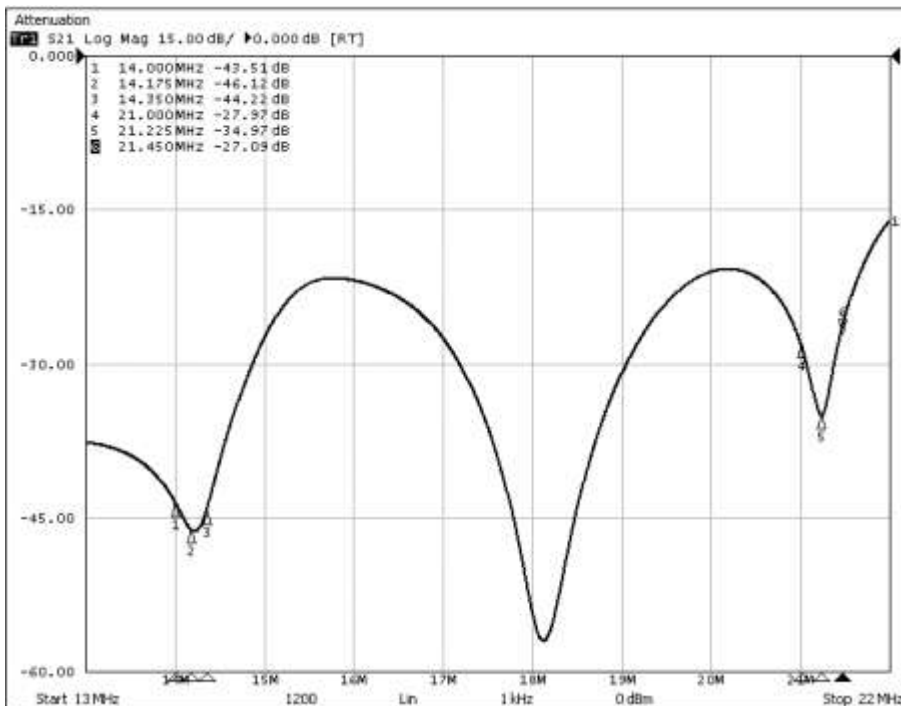
PentaPlexer-II PB-PP1500, 14-18-21-24-28MHz

Serial number #0119-004, as measured:

Isolation: 14MHz port to 18MHz port



Isolation: 14MHz port to 21MHz port



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

E-mail: ra6lbs@gmail.com

Volgodonsk, 347382, Russian Federation

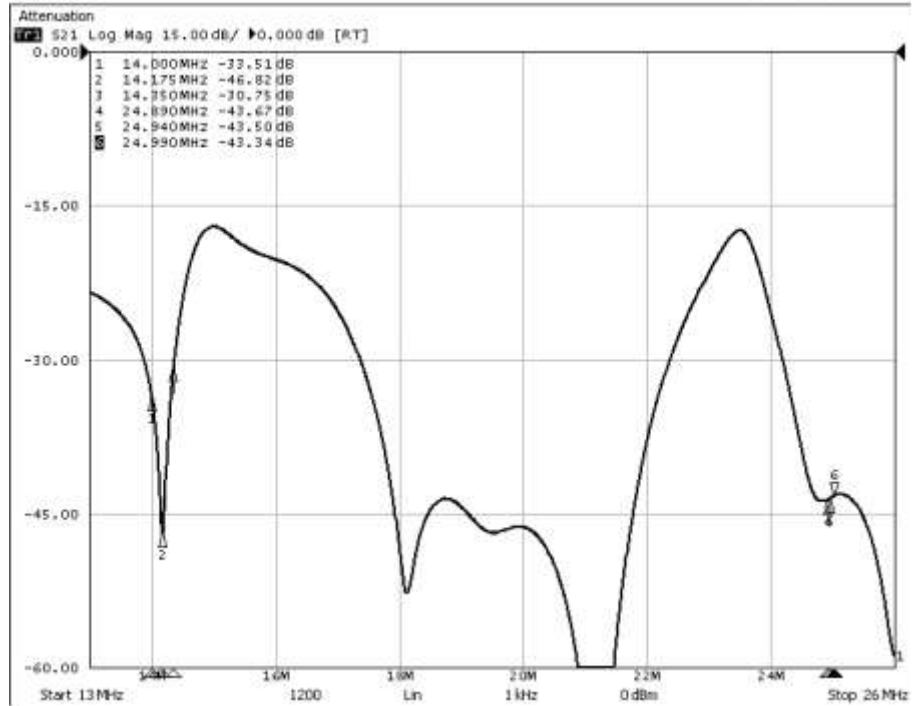
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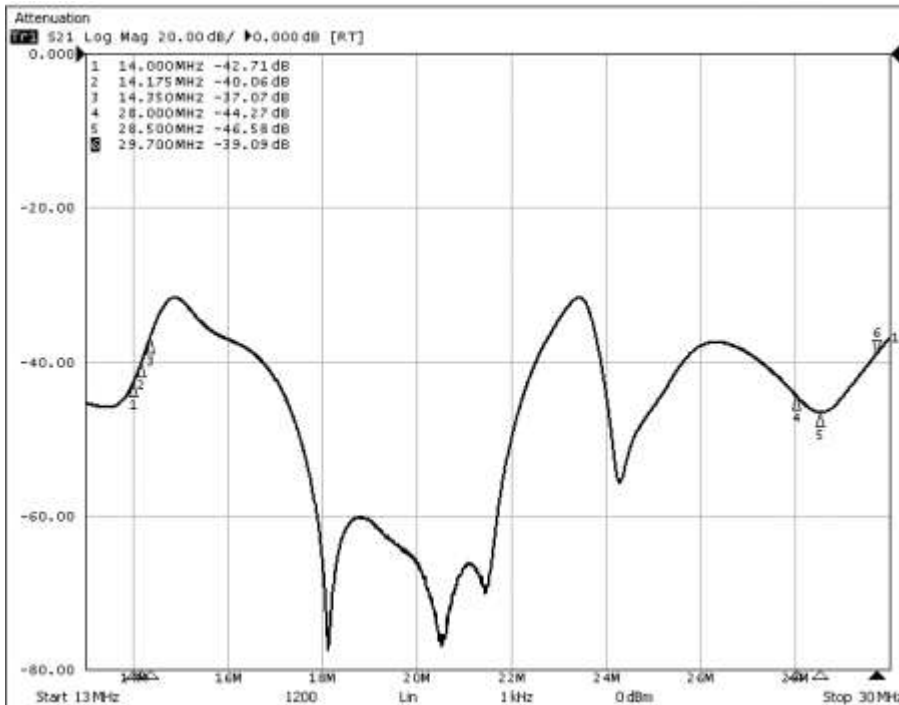
PentaPlexer-II PB-PP1500, 14-18-21-24-28MHz

Serial number #0119-004, as measured:

Isolation: 14MHz port to 24MHz port



Isolation: 14MHz port to 28MHz port



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Volgodonsk, 347382, Russian Federation

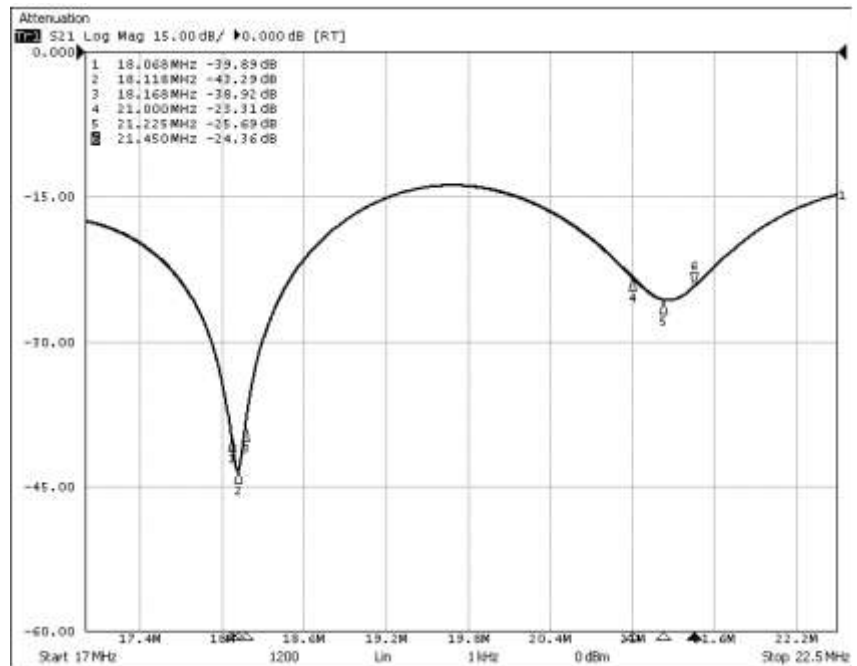
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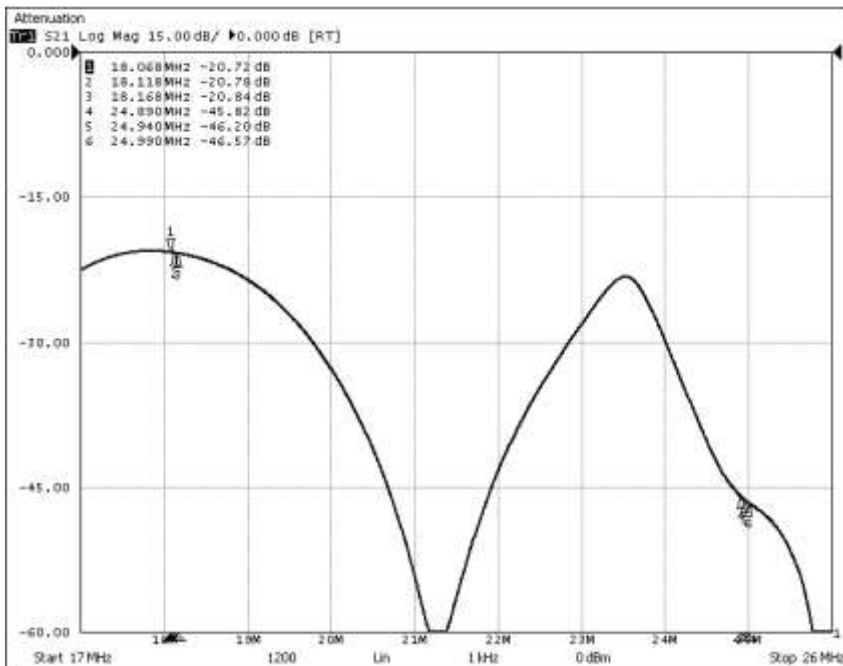
PentaPlexer-II PB-PP1500, 14-18-21-24-28MHz

Serial number #0119-004, as measured:

Isolation: 18MHz port to 21MHz port



Isolation: 18MHz port to 24MHz port



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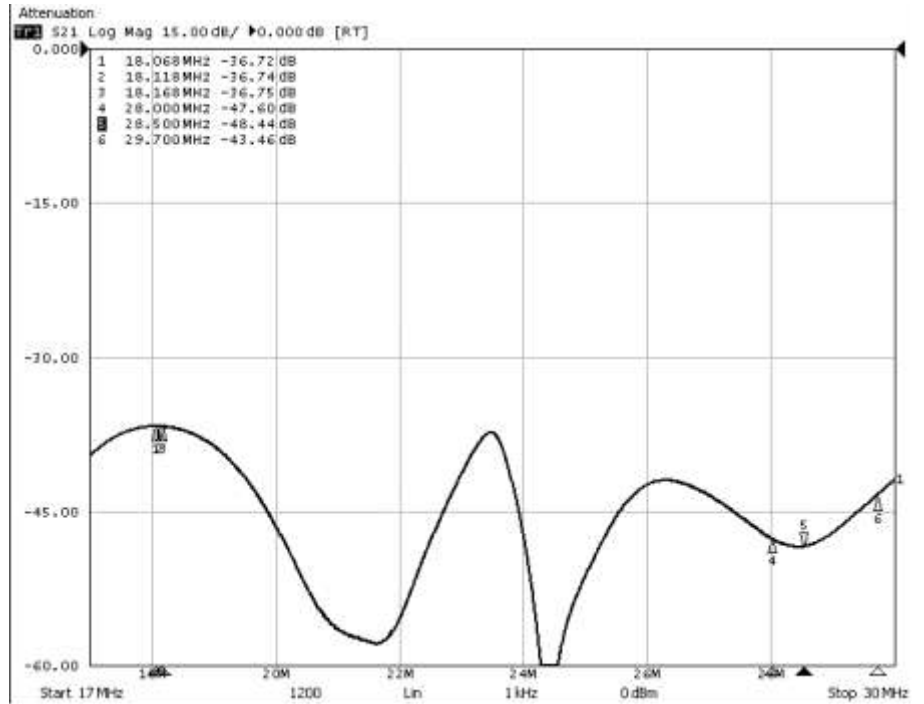
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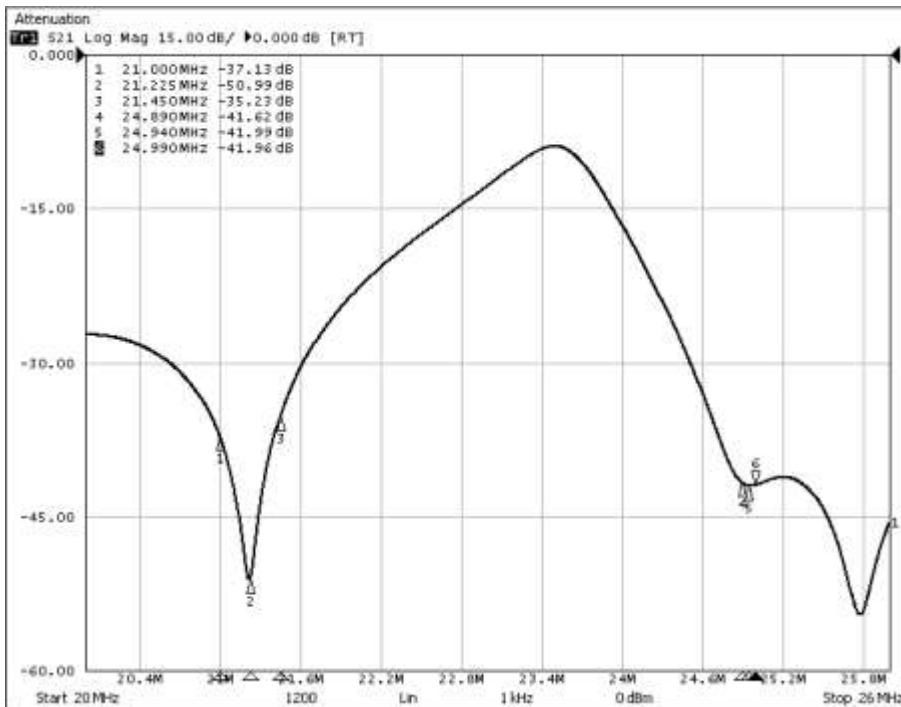
«Perfo Box» series of Filters and MultiPlexers PentaPlexer-II PB-PP1500, 14-18-21-24-28MHz

Serial number #0119-004, as measured:

Isolation: 18MHz port to 28MHz port



Isolation: 21MHz port to 24MHz port



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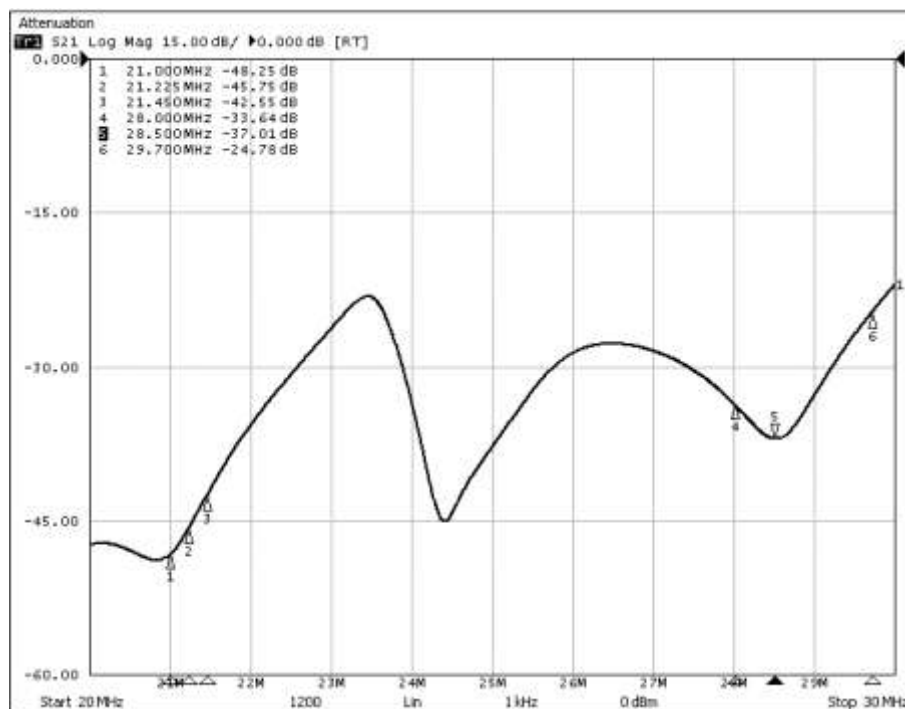


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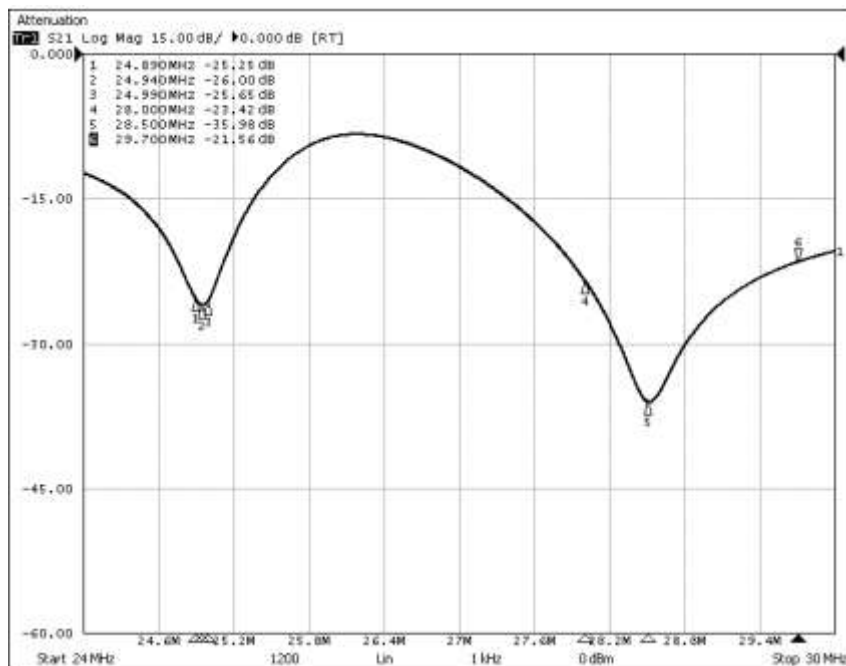
PentaPlexer-II PB-PP1500, 14-18-21-24-28MHz

Serial number #0119-004, as measured:

Isolation: 21MHz port to 28MHz port



Isolation: 24MHz port to 28MHz port



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