

## «Perfo Box» series of Filters and MultiPlexers

### QuadPlexer PB-QP500, 7-14-21-28MHz, 500Watts ICAS

\* 40 meter band: 7,000 ÷ 7,300Mhz ;10 meter band: 28,000 ÷ 29,000Mhz  
 \*\* Intermittent Commercial and Amateur Service, (CW - 50% Duty cycle)

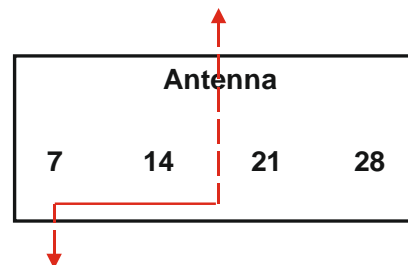
SKU: PB-QP500

#### Typical specifications:

- Impedance: 50 Ohms
- Maximum ICAS power per band port: 500W
- Maximum ICAS power at antenna port: 1500W, (please see [Application notes](#))
- VSWR: ≤1,2 : 1
- Return loss: ≥20db
- Size: 275 x 160 x 85 mm / 10,8" x 6,3" x 3,3"
- Net weight: ≤1,1 kg / 2,5 lbs

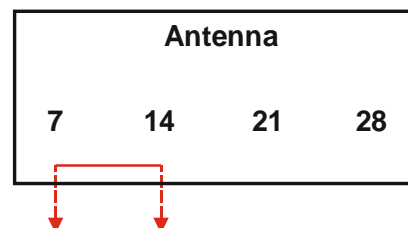
**Band INPUT to Antenna OUTPUT**, insertion loss (S11) and adjacent bands attenuation (S21), worst possible numbers at the band edges rounded to 5db, unused port terminated 50 ohms:

Transmit	Receive level, db.:			
	7	14	21	28
7	≤ -0.15	≥ -45	≥ -45	≥ -35
14	≥ -35	≤ -0.25	≥ -30	≥ -25
21	≥ -30	≥ -30	≤ -0.25	≥ -25
28	≥ -50	≥ -45	≥ -30	≤ -0.25



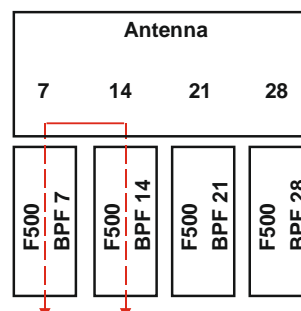
**Band to Band, Isolation from port to port** (S21), worst possible numbers at the band edges rounded to 5db, Antenna and unused port terminated 50 ohms:

Transmit	Receive level, db.:			
	7	14	21	28
7	-	≥ -45	≥ -45	≥ -35
14	≥ -35	-	≥ -30	≥ -25
21	≥ -30	≥ -30	-	≥ -25
28	≥ -50	≥ -45	≥ -30	-



**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.:			
	7	14	21	28
7	≤ -0.4	≥ -95	≥ -95	≥ -90
14	≥ -100	≤ -0.6	≥ -95	≥ -95
21	≥ -90	≥ -65	≤ -0.6	≥ -95
28	≥ -100	≥ -70	≥ -80	≤ -0.65



QC:

3 July, 2020

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

E-mail: ra6lbs@gmail.com

Volgodonsk, 347382, Russian Federation

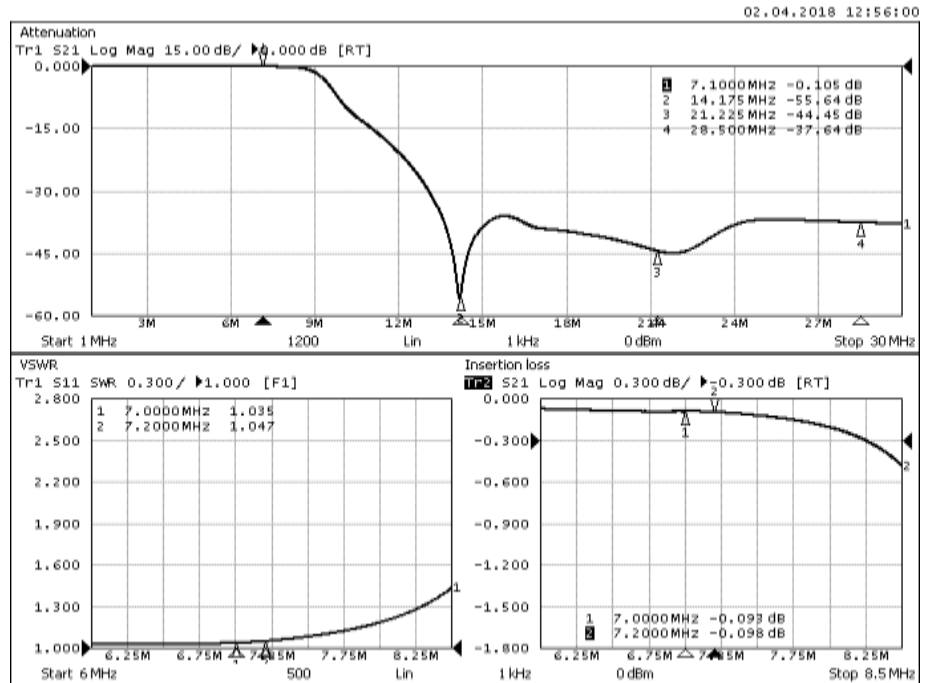
[www.lowbandsystems.com](http://www.lowbandsystems.com)

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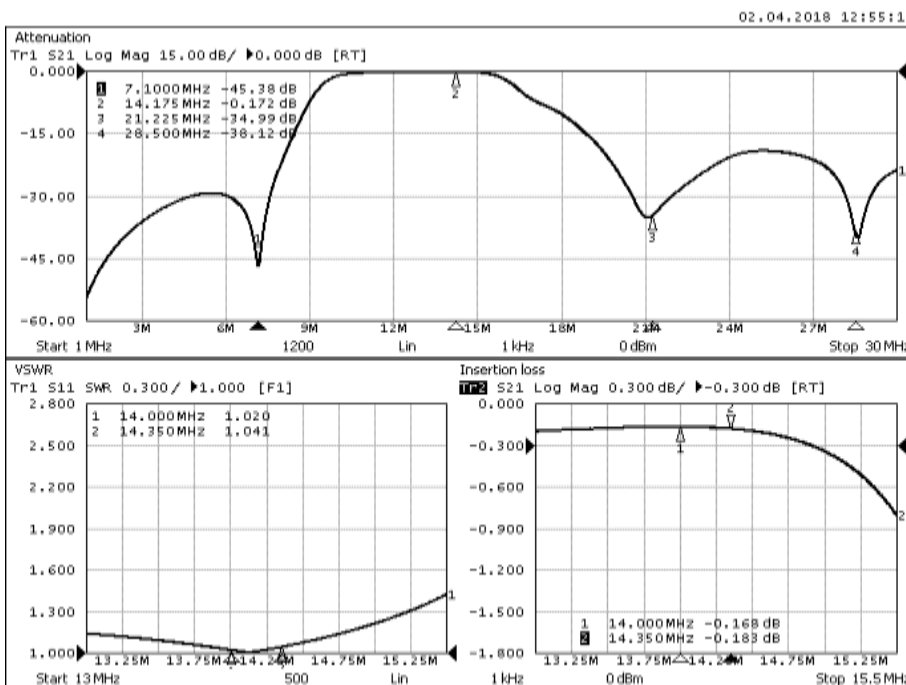
### QuadPlexer PB-QP500, 7-14-21-28MHz, 500Watts ICAS

Specification as measured, serial number #1218-687:

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



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



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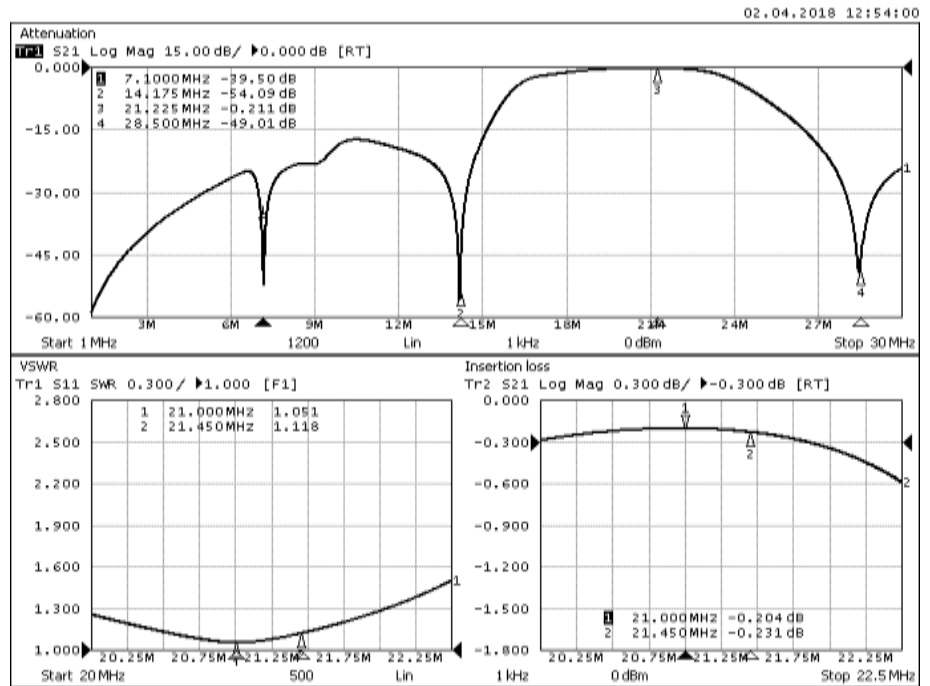
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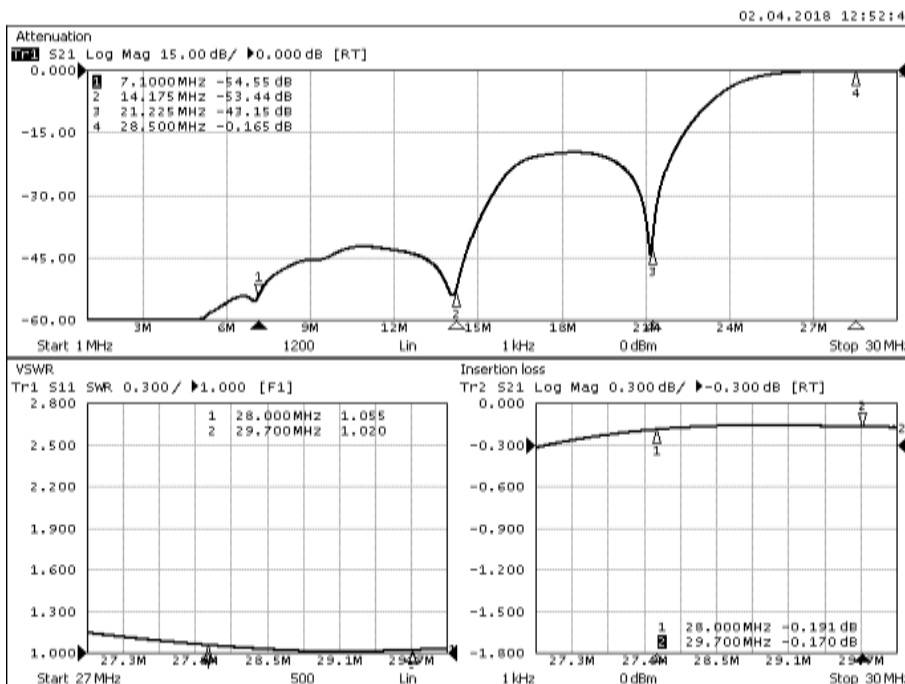
### QuadPlexer PB-QP500, 7-14-21-28MHz, 500Watts ICAS

Specification as measured, serial number #1218-687:

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



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



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Volgodonsk, 347382, Russian Federation

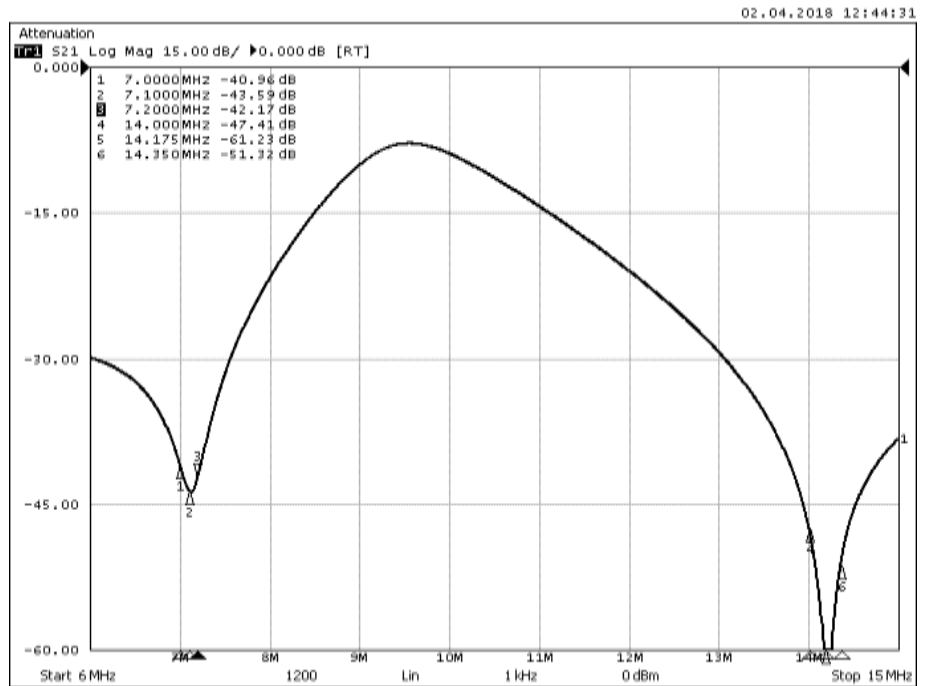
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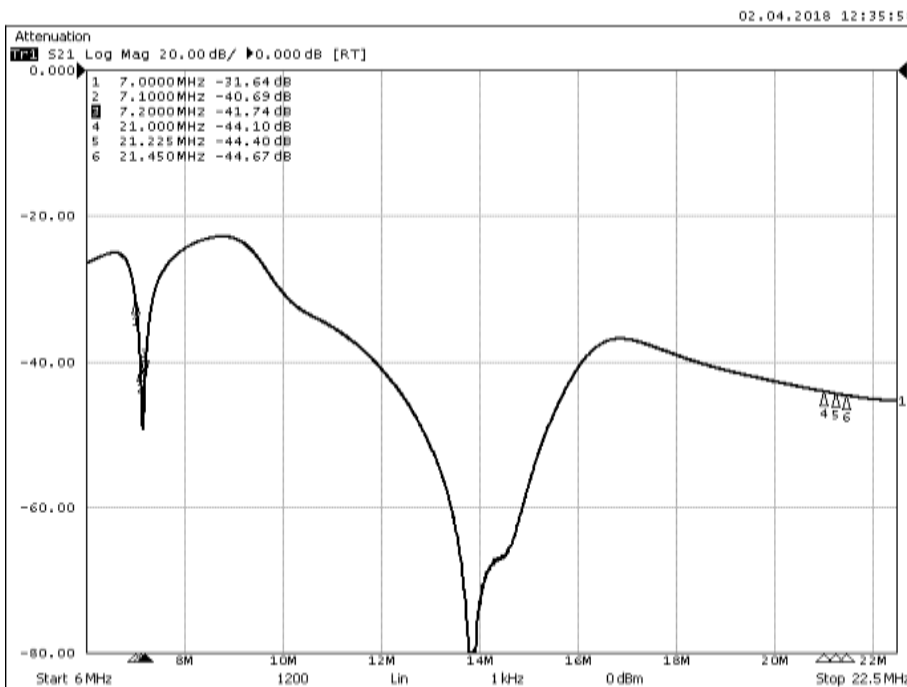
### QuadPlexer PB-QP500, 7-14-21-28MHz, 500Watts ICAS

Specification as measured, serial number #1218-687:

**Isolation:** 7MHz port to 14MHz port



**Isolation:** 7MHz port to 21MHz port



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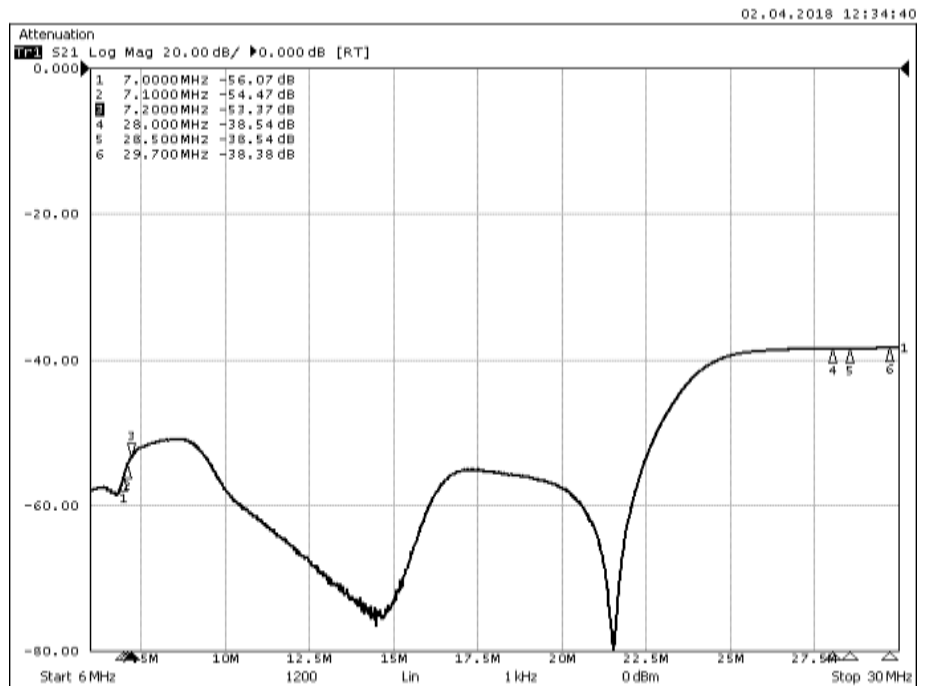
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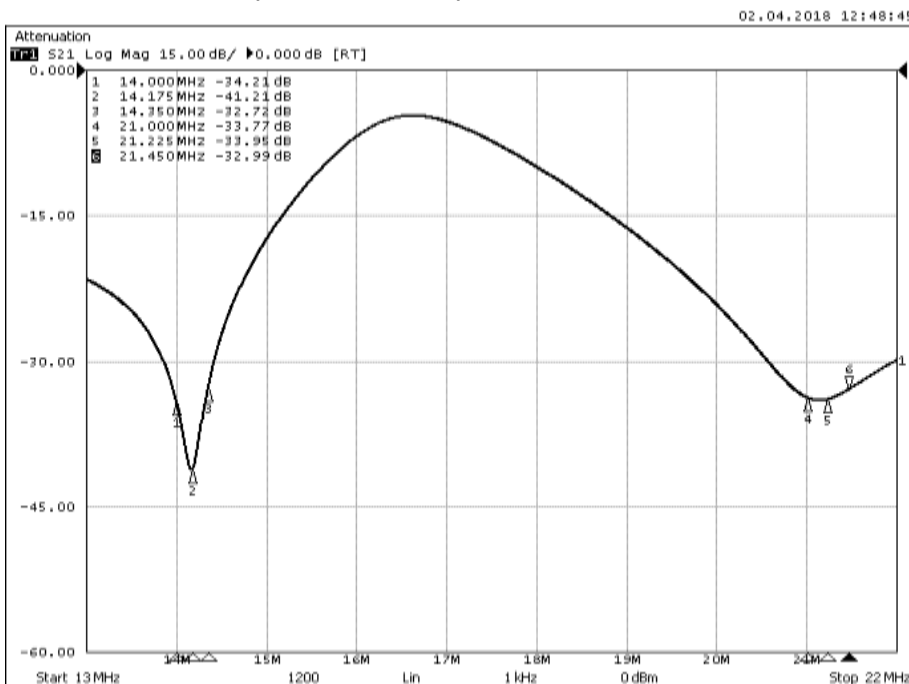
QuadPlexer PB-QP500, 7-14-21-28MHz, 500Watts ICAS

Specification as measured, serial number #1218-687:

Isolation: 7MHz port to 28MHz port



Isolation: 14MHz port to 21MHz port



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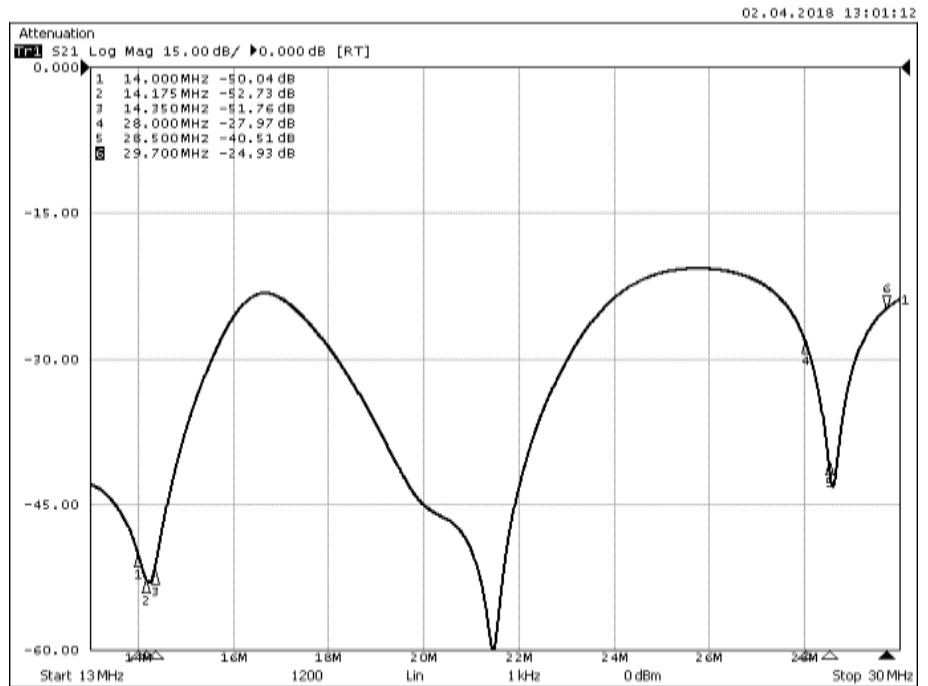


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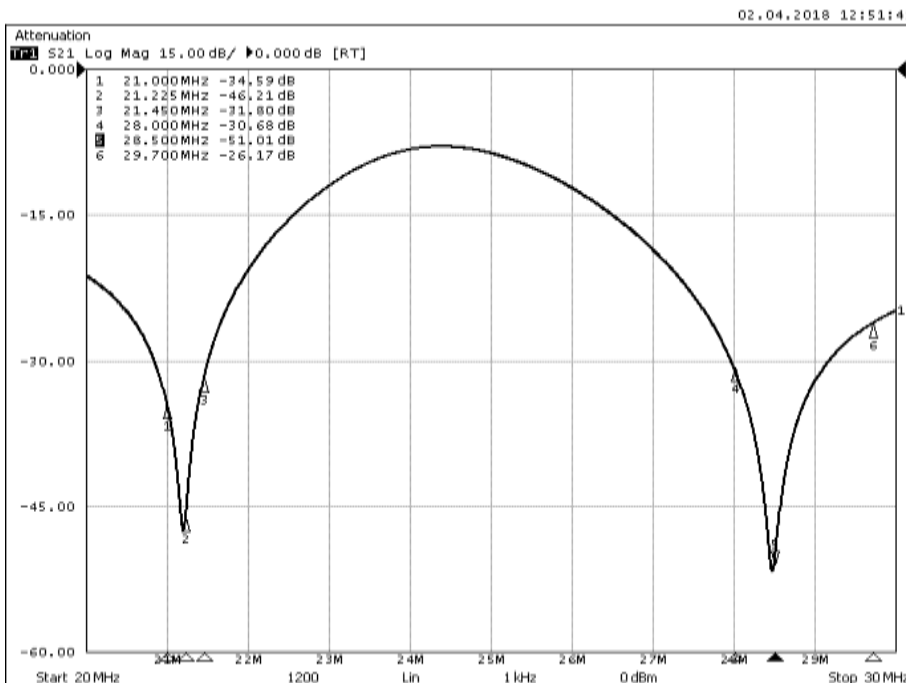
### QuadPlexer PB-QP500, 7-14-21-28MHz, 500Watts ICAS

Specification as measured, serial number #1218-687:

**Isolation:** 14MHz port to 28MHz port



**Isolation:** 21MHz port to 28MHz port



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