Filter solutions for HAM RADIO

«Perfo Box» series of Filters and MultiPlexers

QuadPlexer PB-QP1500, 7-14-21-28MHz*, 1500Watts ICAS**

** 40 meter band: 7,000 ÷ 7,300Mhz ;10 meter band: 28,000 ÷ 29,000Mhz*
*** **I**ntermittent **C**ommercial and **A**mateur **S**ervice, (CW - 50% Duty cycle)*

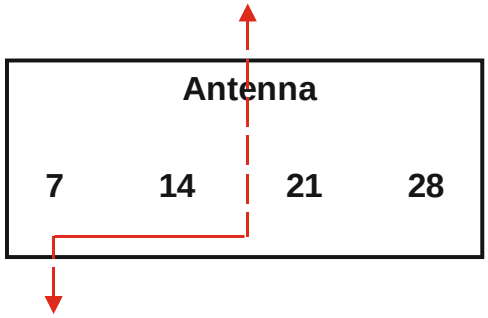
SKU: PB-QP1500

Typical specifications:

- Impedance: 50 Ohms
- Maximum ICAS power per band port: 1500W
- Maximum ICAS power at antenna port: 4500W, *(please see Application notes)*
- VSWR: ≤1,25:1
- Return loss ≥19db
- Size: 360 x 240 x 110 mm / 14,2" x 9,4" x 4,39"
- Net weight: ≤3,2 kg / 7,5 lbs

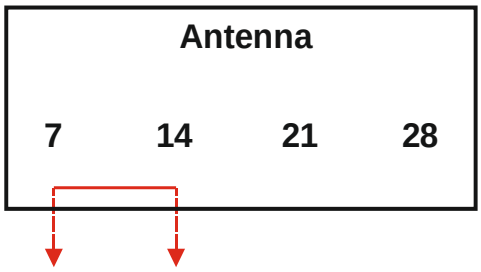
Band INPUT to Antenna OUTPUT, insertion loss (S11) and adjacent bands attenuation (S21), worst possible numbers at the band edges rounded to 5db, unused port terminated 50 ohms:

Transmit	Receive level, db.: 7	14	21	28
7	≤ -0.15	≥ -30	≥ -50	≥ -50
14	≥ -30	≤ -0.2	≥ -35	≥ -25
21	≥ -25	≥ -25	≤ -0.3	≥ -20
28	≥ -55	≥ -40	≥ -30	≤ -0.2



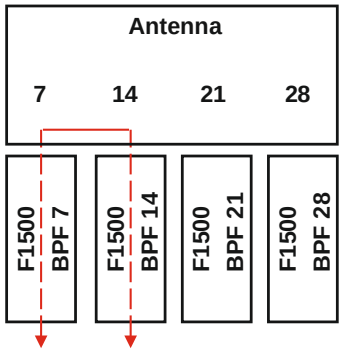
Band to Band, **Isolation from port to port** (S21), worst possible numbers at the band edges rounded to 5db, Antenna and unused port terminated 50 ohms:

Transmit	Receive level, db.: 7	14	21	28
7	-	≥ -30	≥ -45	≥ -50
14	≥ -30	-	≥ -35	≥ -25
21	≥ -25	≥ -25	-	≥ -20
28	≥ -55	≥ -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-1500»,** 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	-	≥ -95	≥ -105	≥ -105
14	≥ -105	-	≥ -100	≥ -105
21	≥ -100	≥ -85	-	≥ -90
28	≥ -105	≥ -100	≥ -70	-



QC:

3 July, 2020

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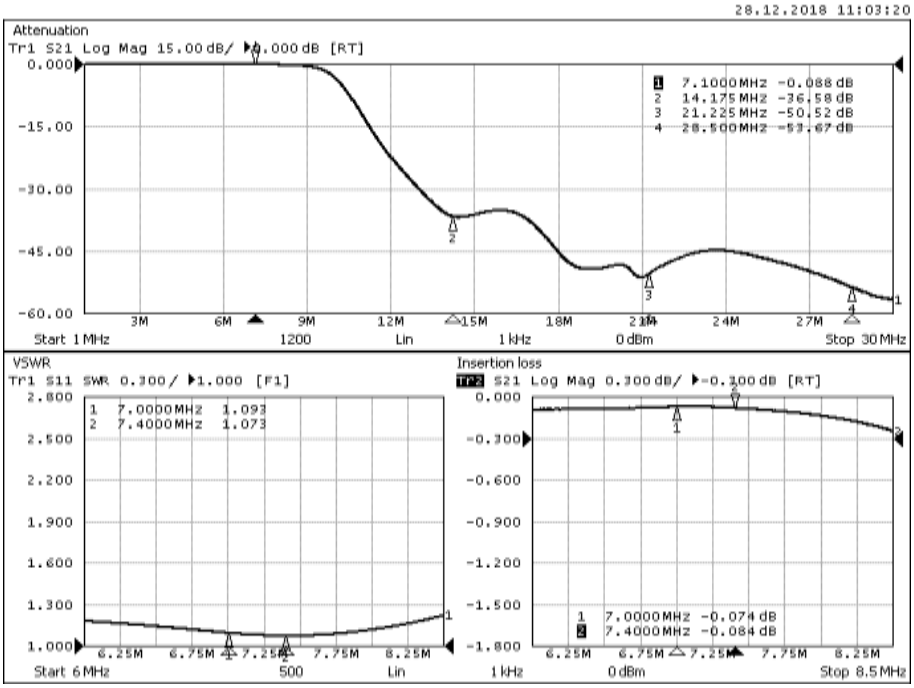
Volgodonsk, 347382, Russian Federation
www.lowbandsystems.com

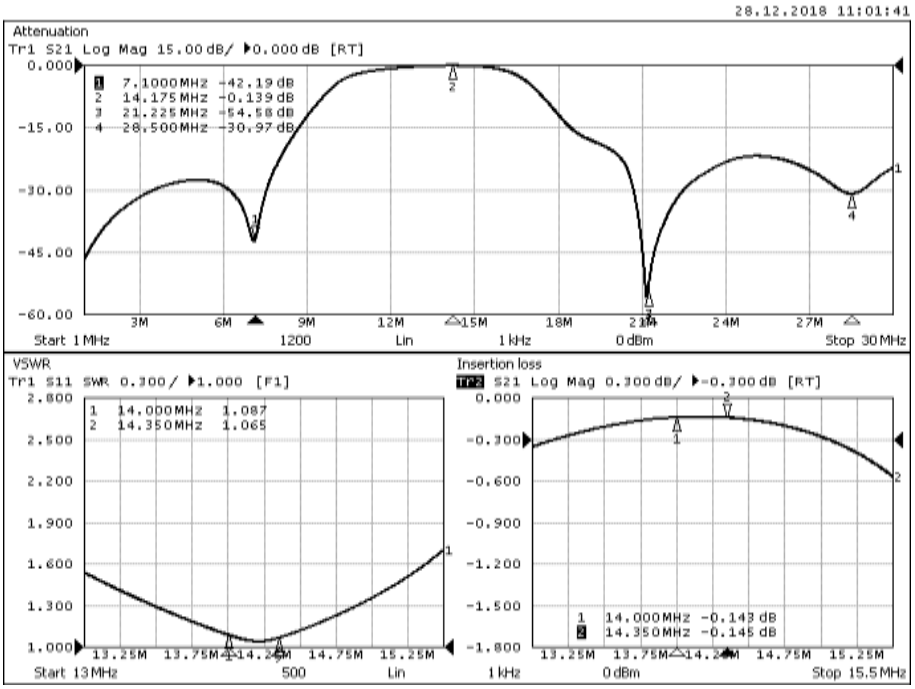
QuadPlexer PB-QP1500, 7-14-21-28MHz, 1500Watts ICAS

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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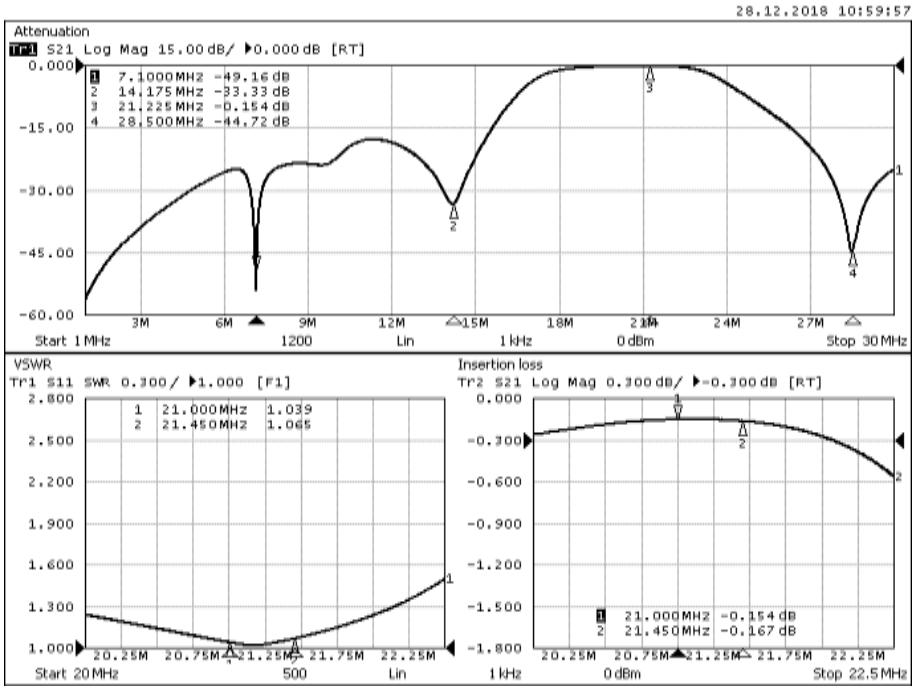
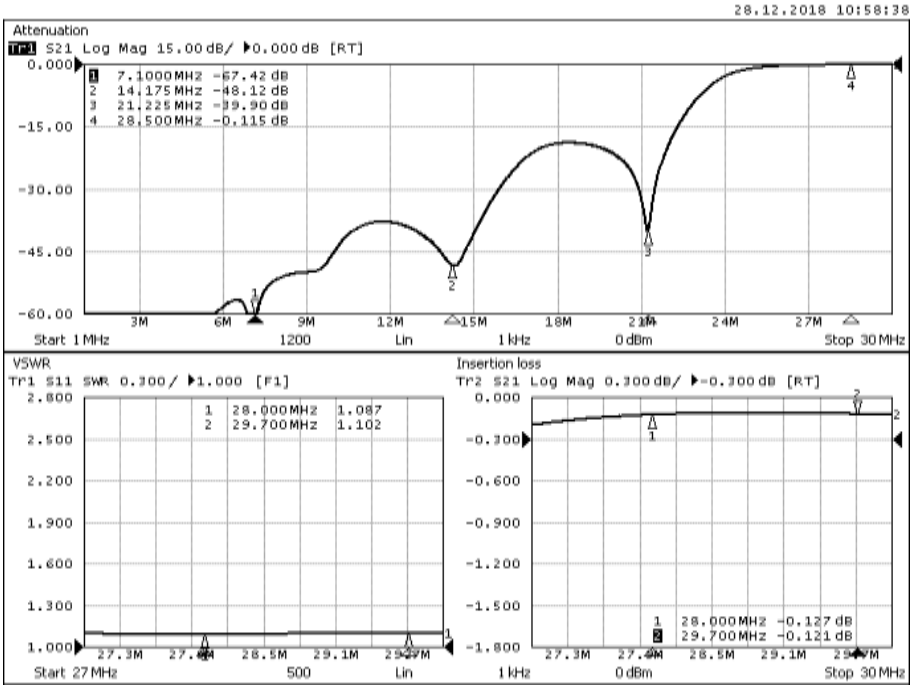
Specification as measured, serial number #1218-687:

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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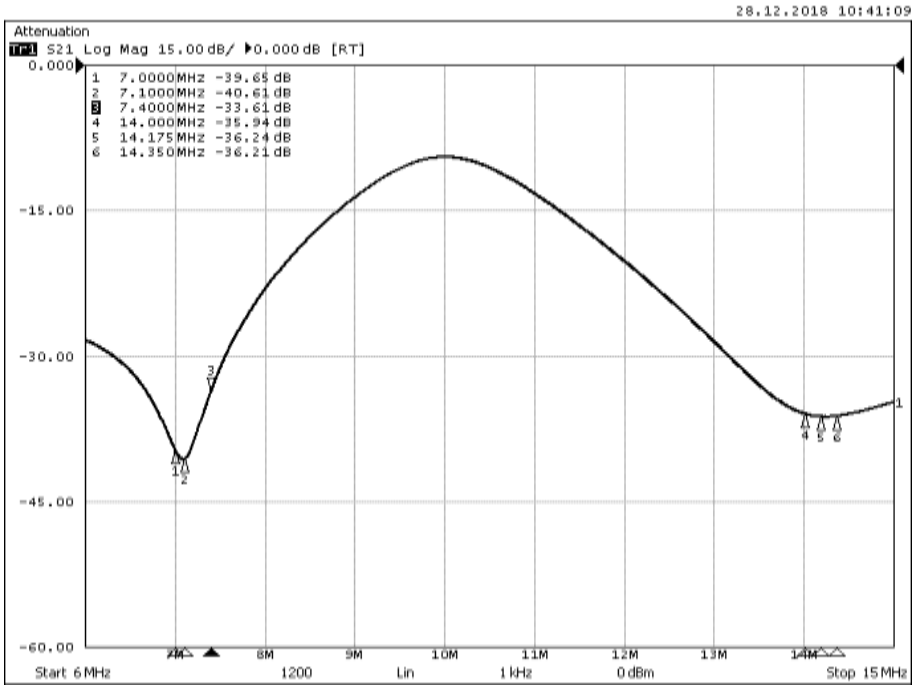
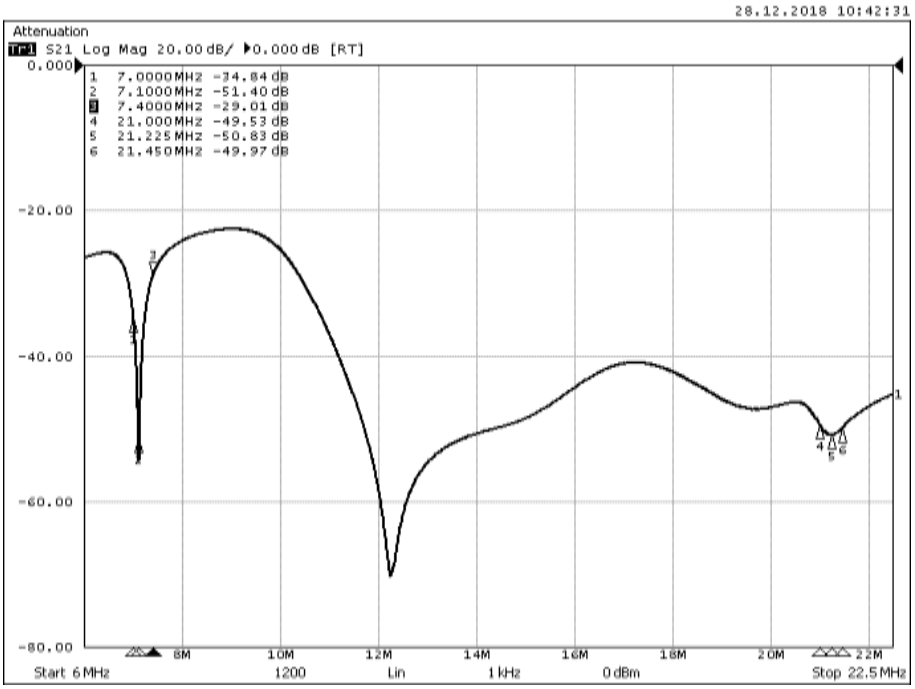
QuadPlexer PB-QP1500, 7-14-21-28MHz, 1500Watts ICAS

Specification as measured, serial number #1218-687:

Isolation: 7MHz port to 14MHz port



Isolation: 7MHz port to 21MHz port



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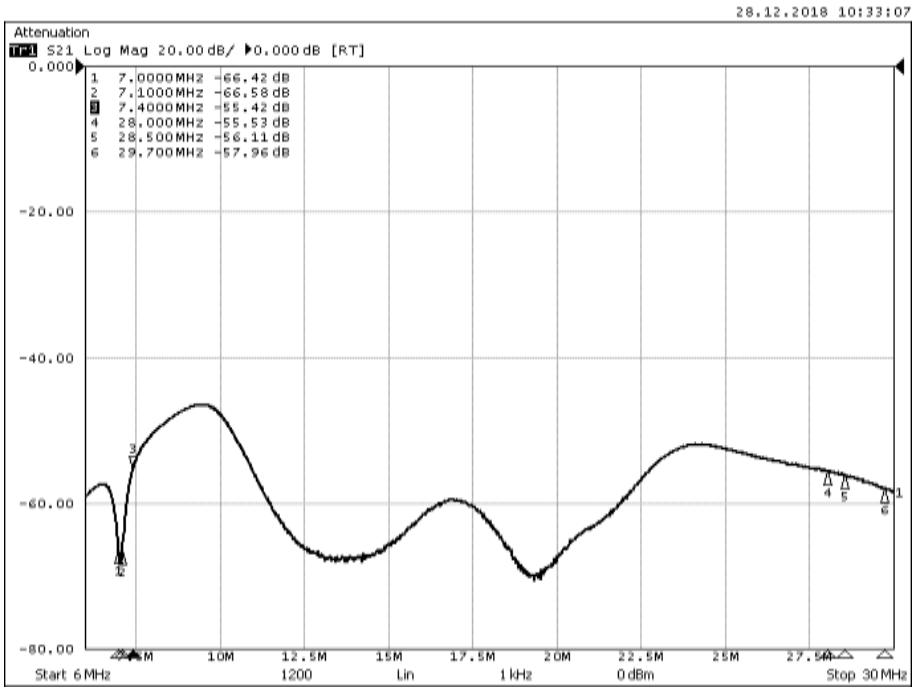
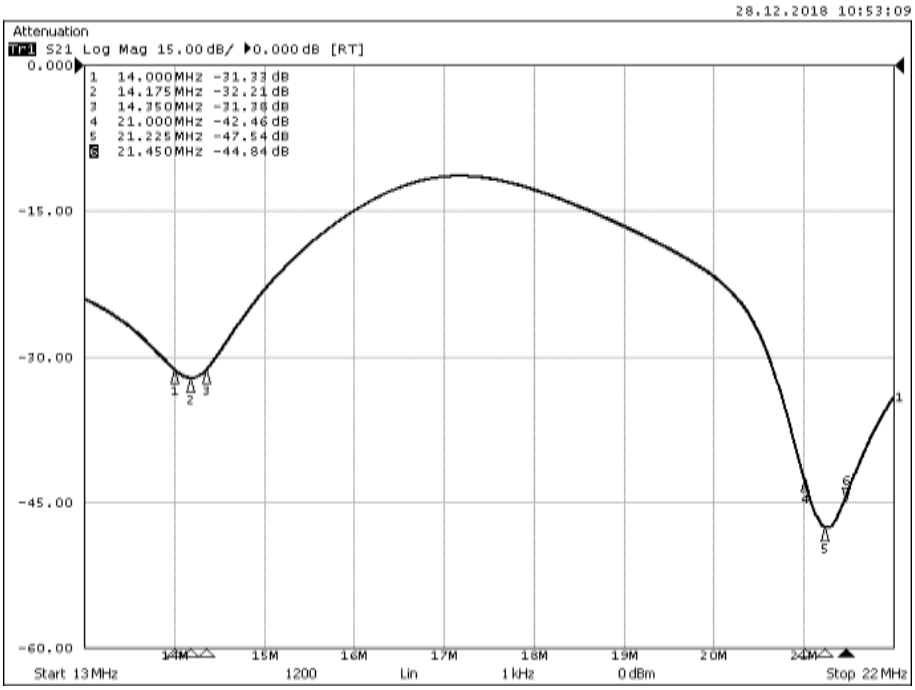
Specification as measured, serial number #1218-687:

Isolation: 7MHz port to 28MHz port



Isolation: 14MHz port to 21MHz port



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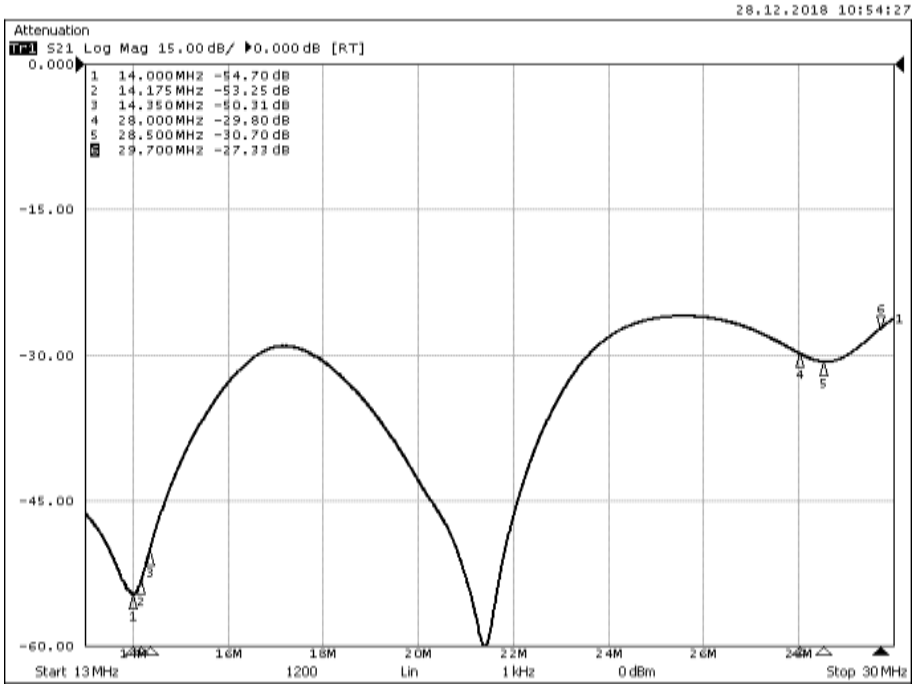
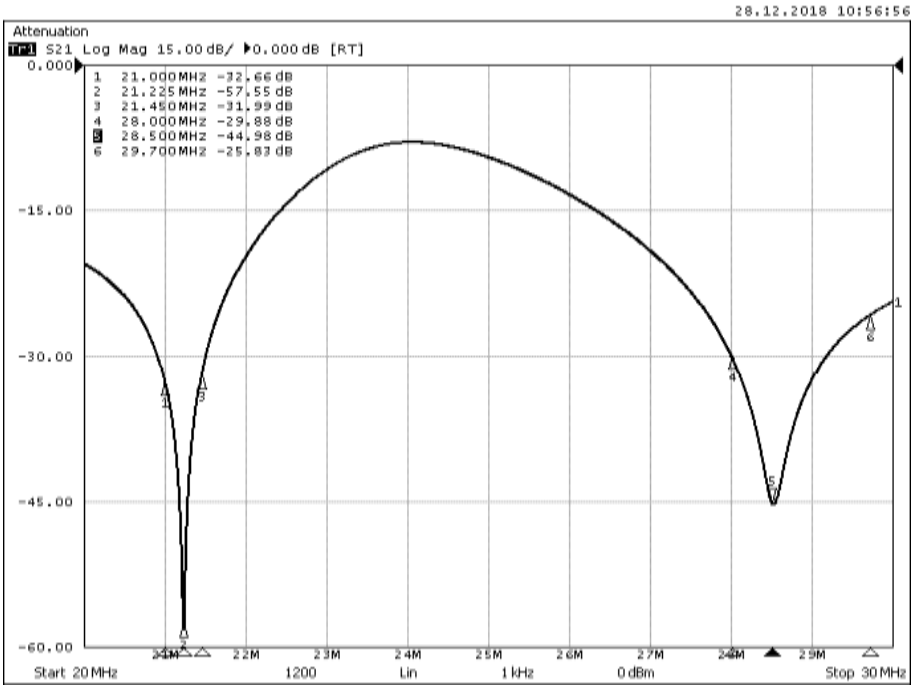
Specification as measured, serial number #1218-687:

Isolation: 14MHz port to 28MHz port



Isolation: 21MHz port to 28MHz port



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