

Perfo Box series of filters and multiplexers

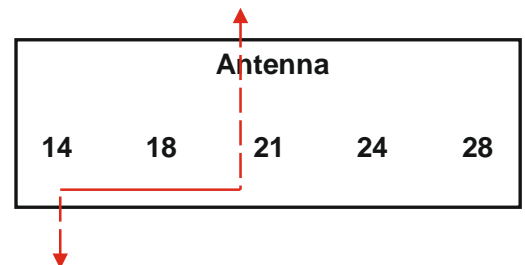
«Perfo Box-1500» PentaPlexer, 14-18-21-24-28 MHz

Typical specifications:

- Impedance: 50 Ohms
- Maximum ICAS power per band port: 1500 W
- Maximum ICAS power at antenna port: 3000 W, (please see [Application notes](#))
- VSWR: typical $\leq 1 : 1,2$
- Size: 380 x 325 x 120 mm / 15" x 13" x 5"
- Net weight: ≤ 4.3 kg / 9,5 lbs.
- Cooling Fans: 2pcs., 29.9CFM, 12VDC

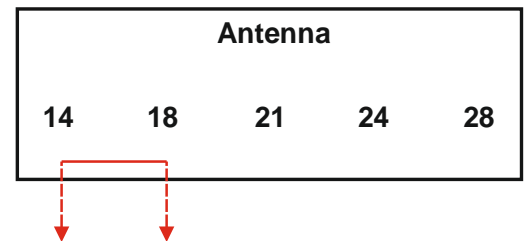
Band INPUT to Antenna OUTPUT, insertion loss (S11) and adjacent band attenuation (S21):

Transmit	Receive level, db.:				
	14	18	21	24	28
14	-0,2	-40	-35	-45	-45
18	-30	-0,4	-25	-45	-45
21	-50	-25	-0,5	-40	-35
24	-35	-20	-35	-0,6	-25
28	-35	-35	-55	-30	-0,4



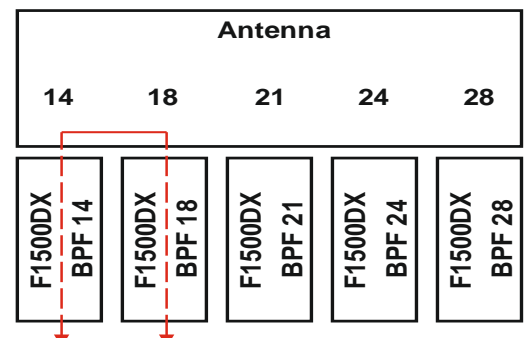
Band to Band, Isolation from port to port (S21, lowest possible numbers at the band edges), Antenna and unused ports terminated 50 ohms:

Transmit	Receive level, db.:				
	14	18	21	24	28
14	-	-30	-25	-40	-35
18	-25	-	-20	-55	-40
21	-40	-30	-	-35	-20
24	-25	-20	-30	-	-20
28	-30	-35	-45	-30	-



Band to Band Isolation (S21, worst possible numbers at the band edges, rounded to 5), **with band pass filters PerfoBox 1500DX**, Antenna 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	-

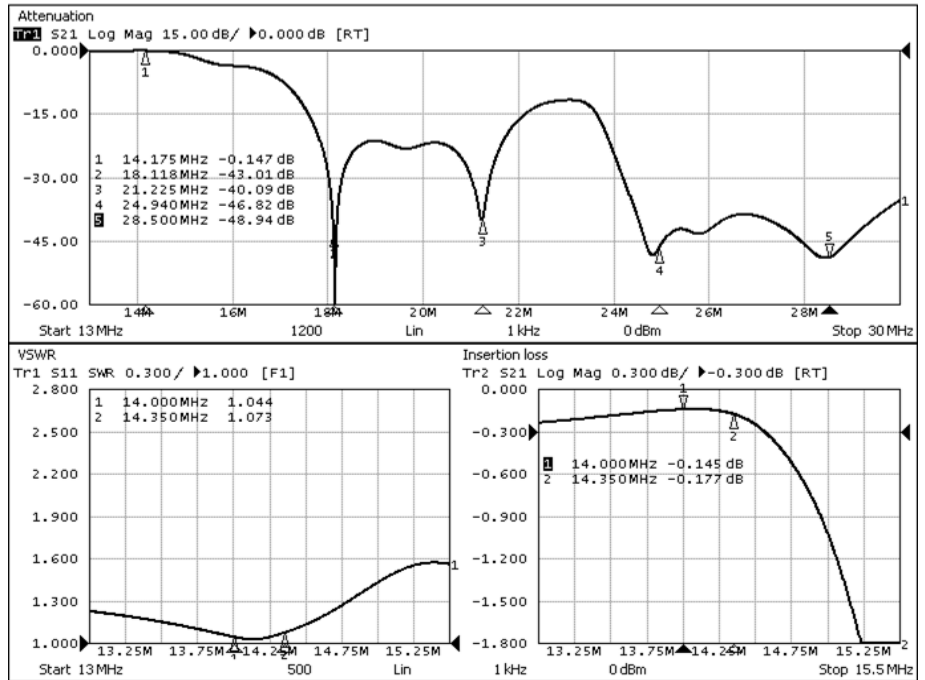


«Perfo Box-1500»

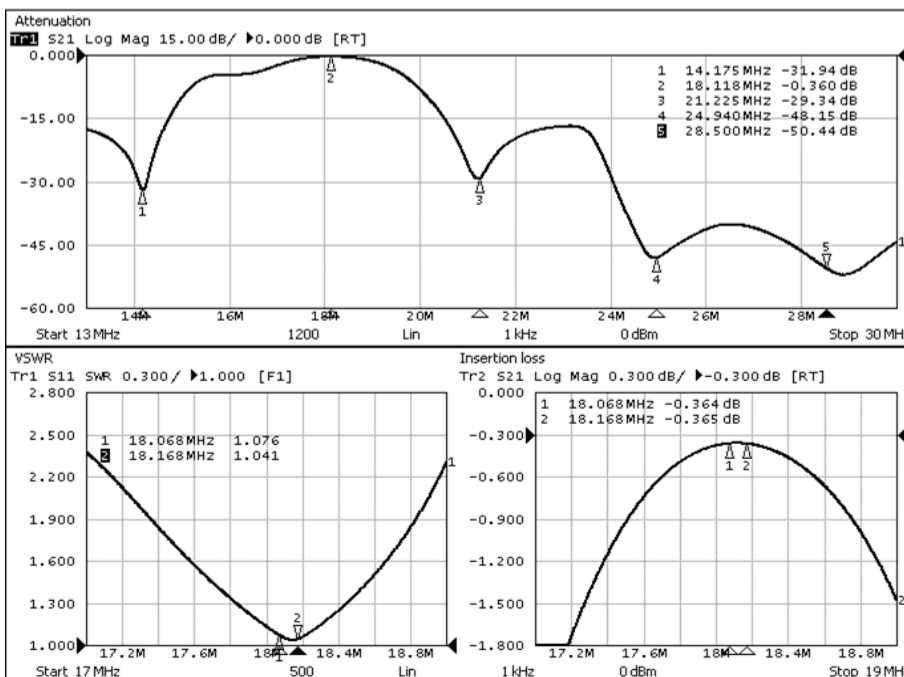
PentaPlexer, 14-18-21-24-28 MHz

Serial number #1118-645, 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



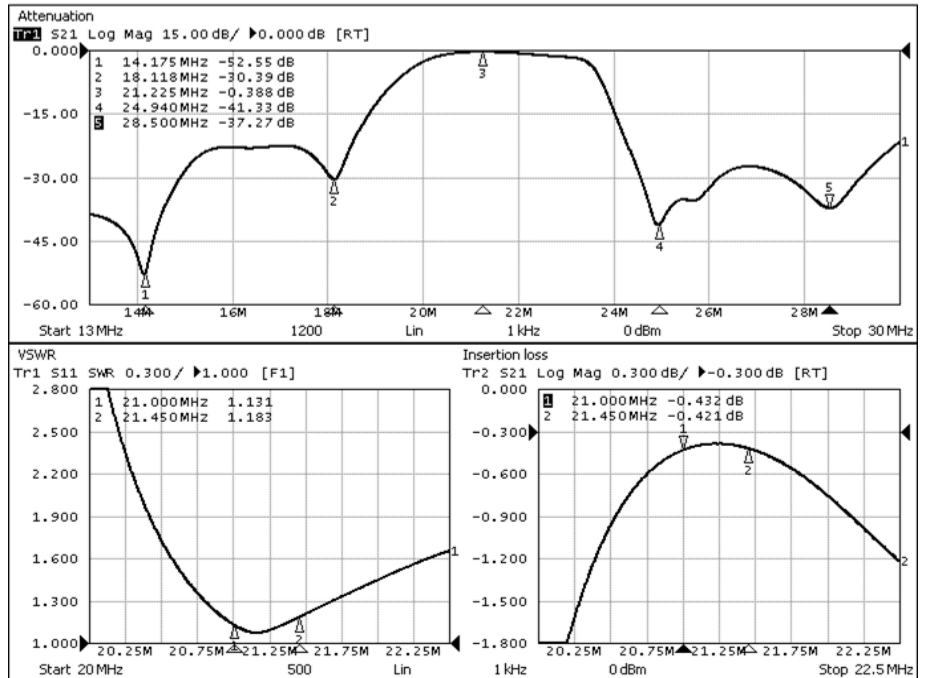
QC:

«Perfo Box-1500»

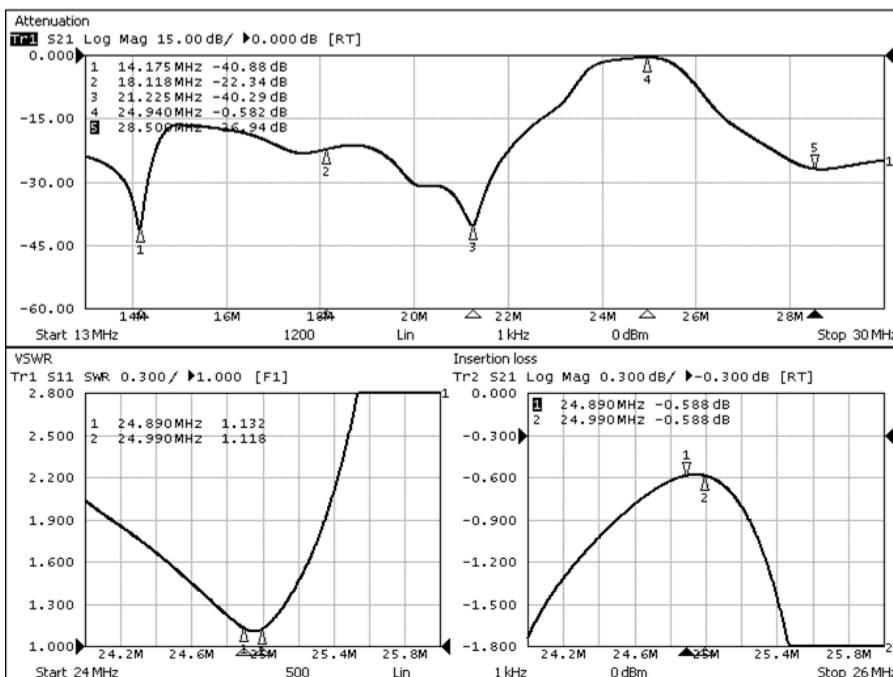
PentaPlexer, 14-18-21-24-28 MHz

Serial number #1118-645, 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



QC:

Filter solutions for HAM RADIO

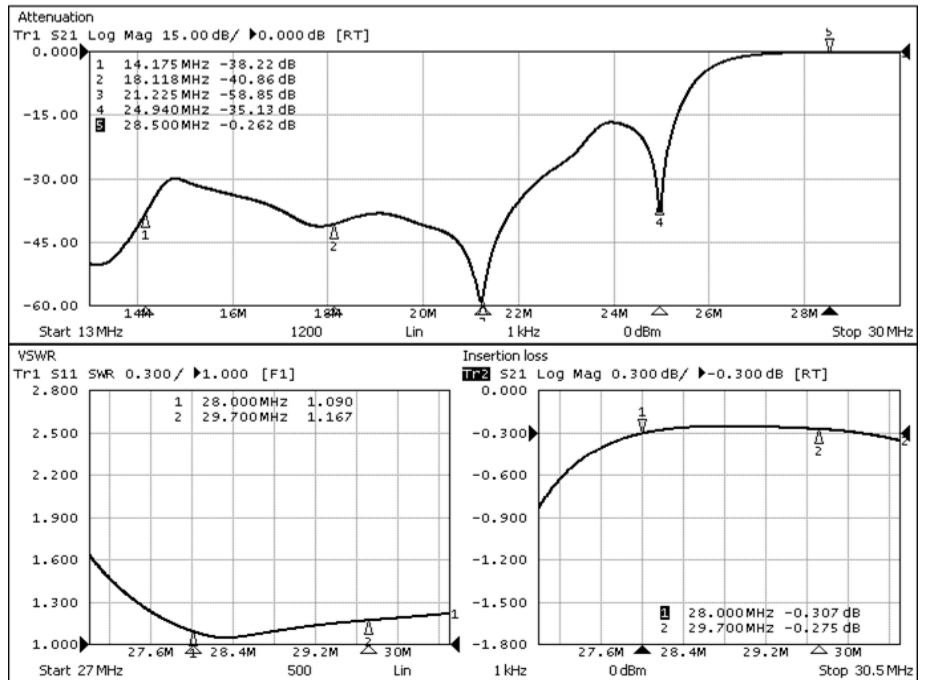


«Perfo Box-1500»

PentaPlexer, 14-18-21-24-28 MHz

Serial number #1118-645, as measured:

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



QC:

Filter solutions for HAM RADIO

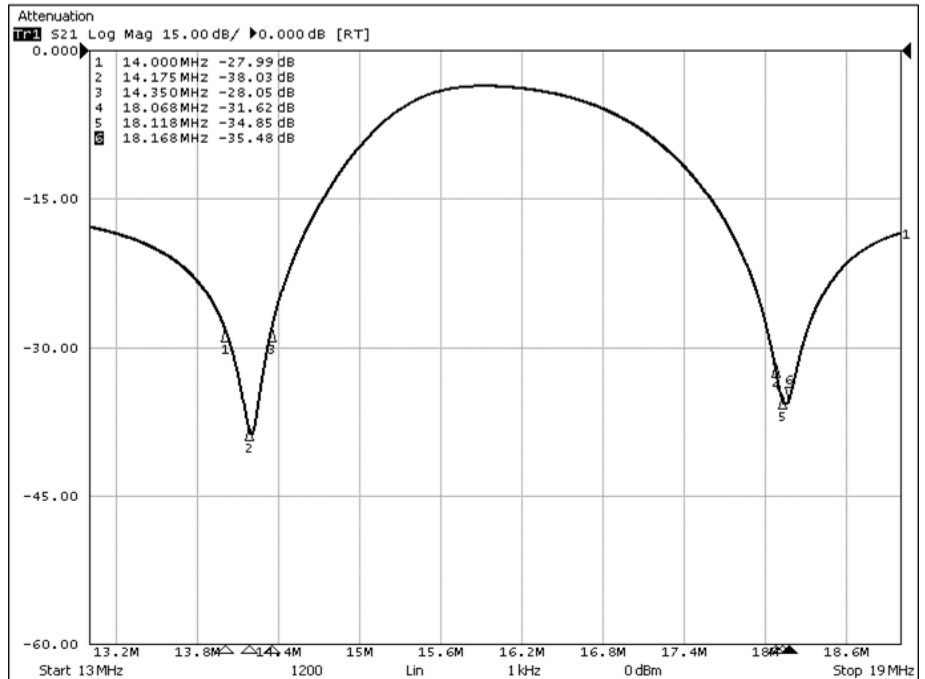


«Perfo Box-1500»

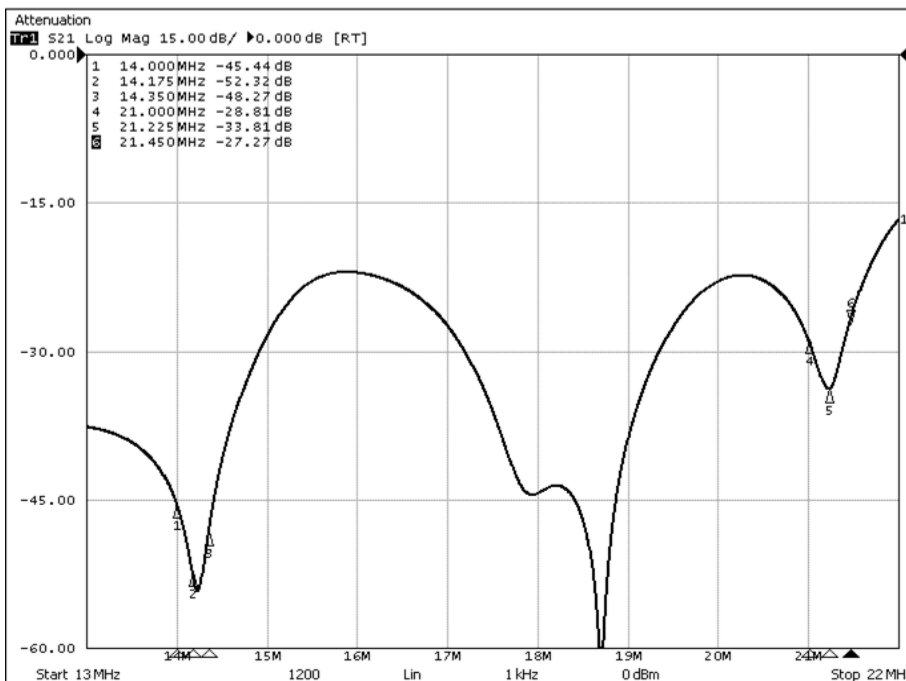
PentaPlexer, 14-18-21-24-28 MHz

Serial number #1118-645, as measured:

Isolation: 14MHz port to 18MHz port



Isolation: 14MHz port to 21MHz port



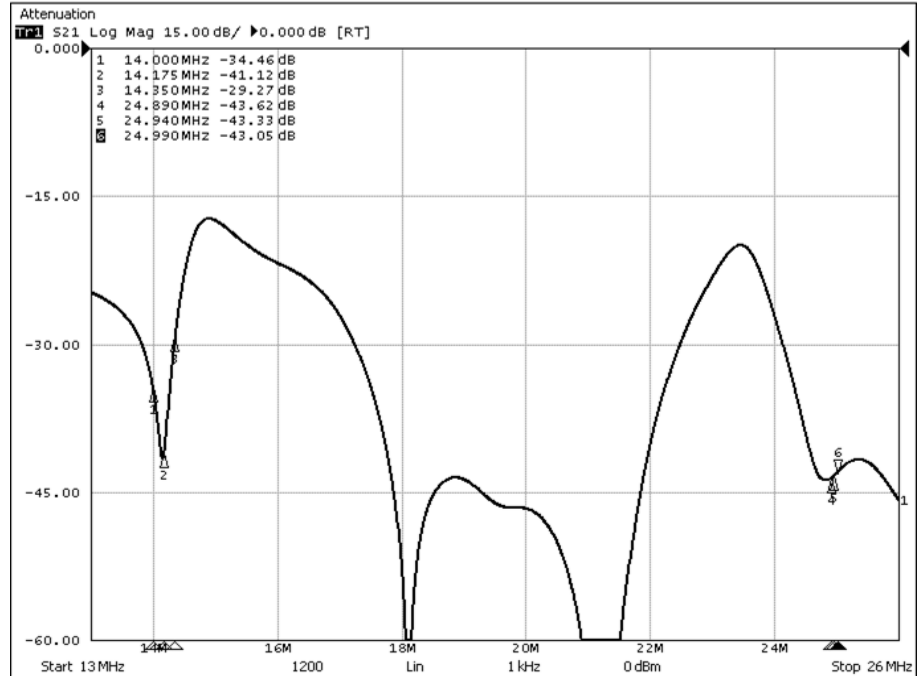
QC:

«Perfo Box-1500»

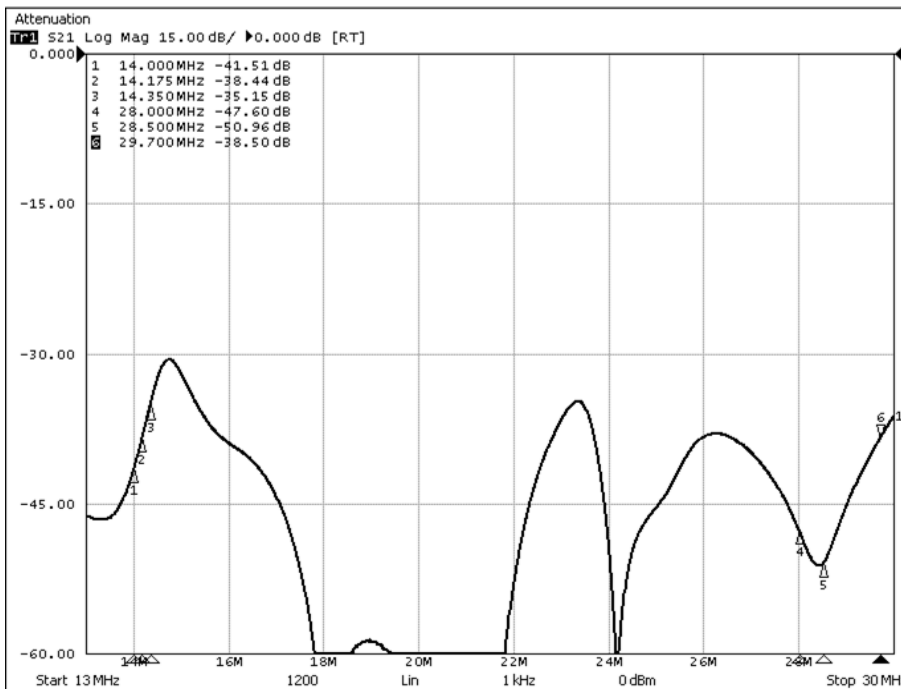
PentaPlexer, 14-18-21-24-28 MHz

Serial number #1118-645, as measured:

Isolation: 14MHz port to 24MHz port



Isolation: 14MHz port to 28MHz port



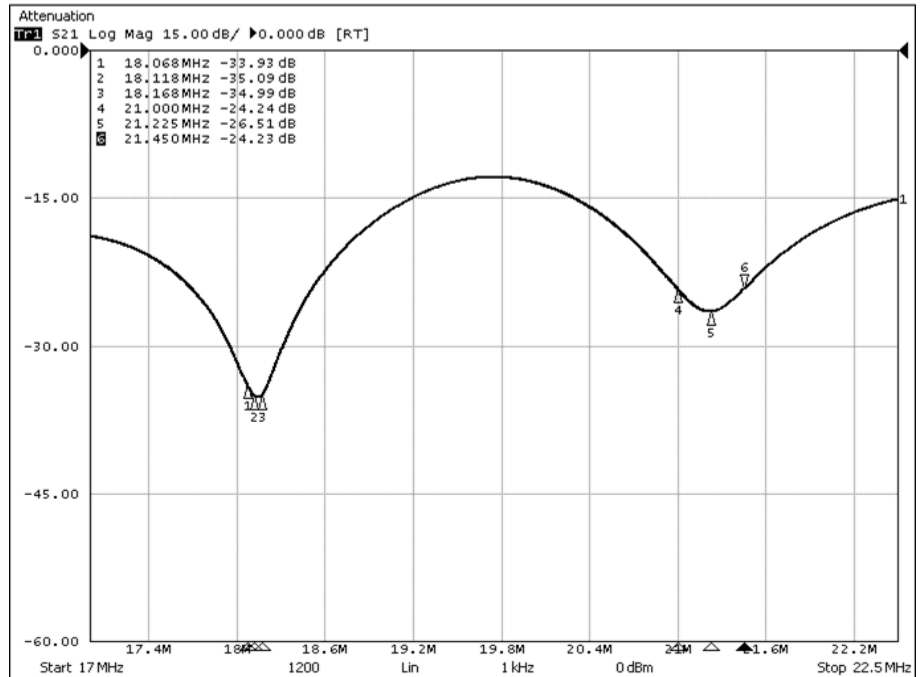
QC:

«Perfo Box-1500»

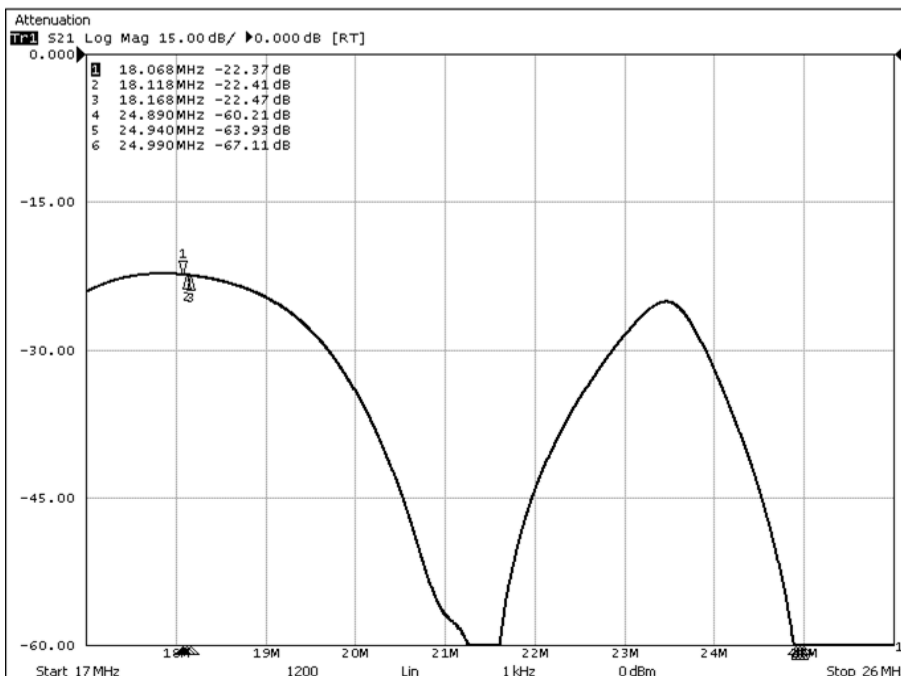
PentaPlexer, 14-18-21-24-28 MHz

Serial number #1118-645, as measured:

Isolation: 18MHz port to 21MHz port



Isolation: 18MHz port to 24MHz port



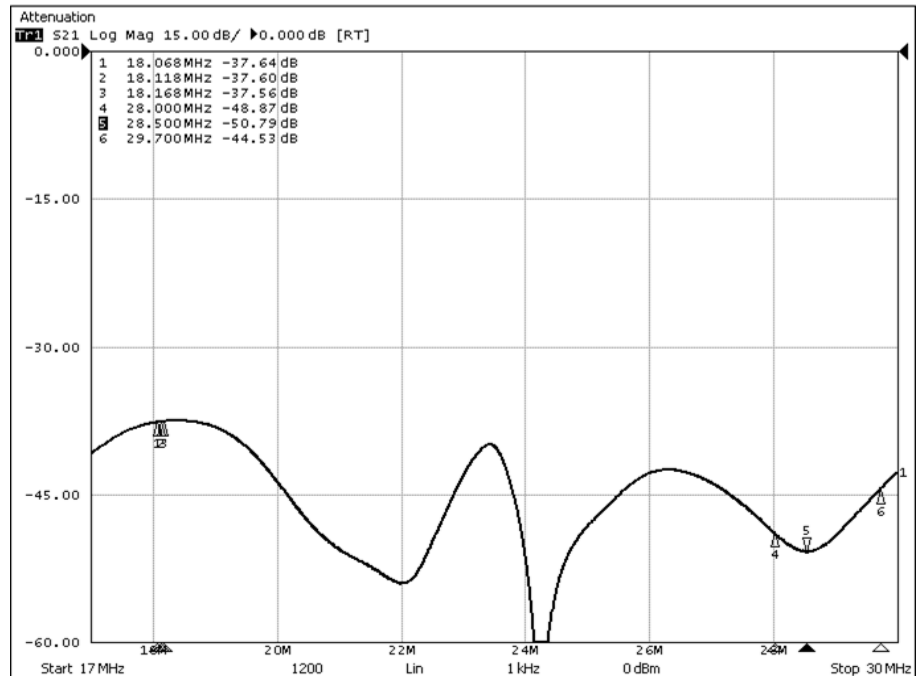
QC:

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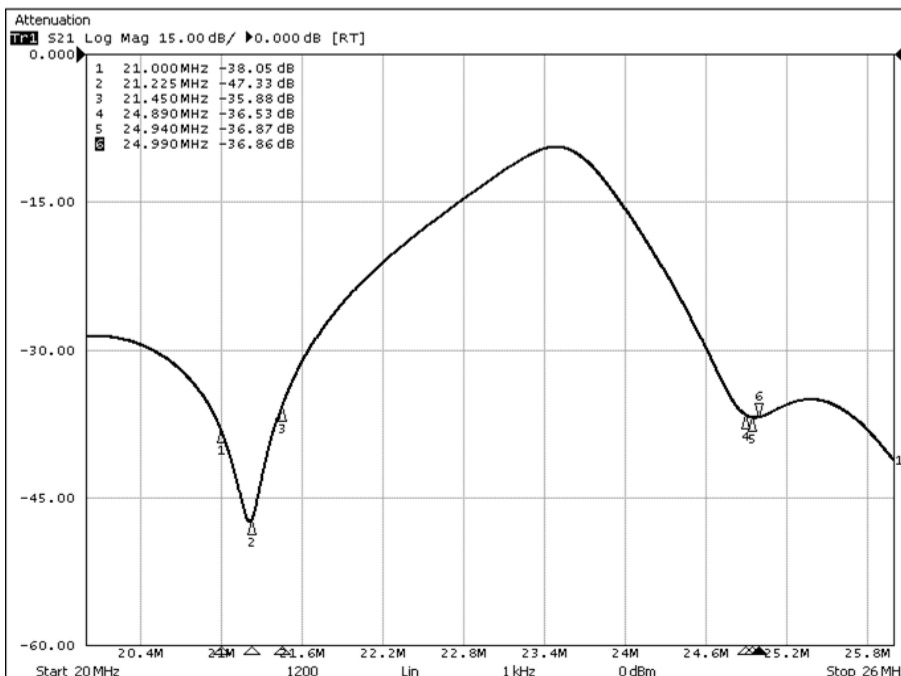
PentaPlexer, 14-18-21-24-28 MHz

Serial number #1118-645, as measured:

Isolation: 18MHz port to 28MHz port



Isolation: 21MHz port to 24MHz port



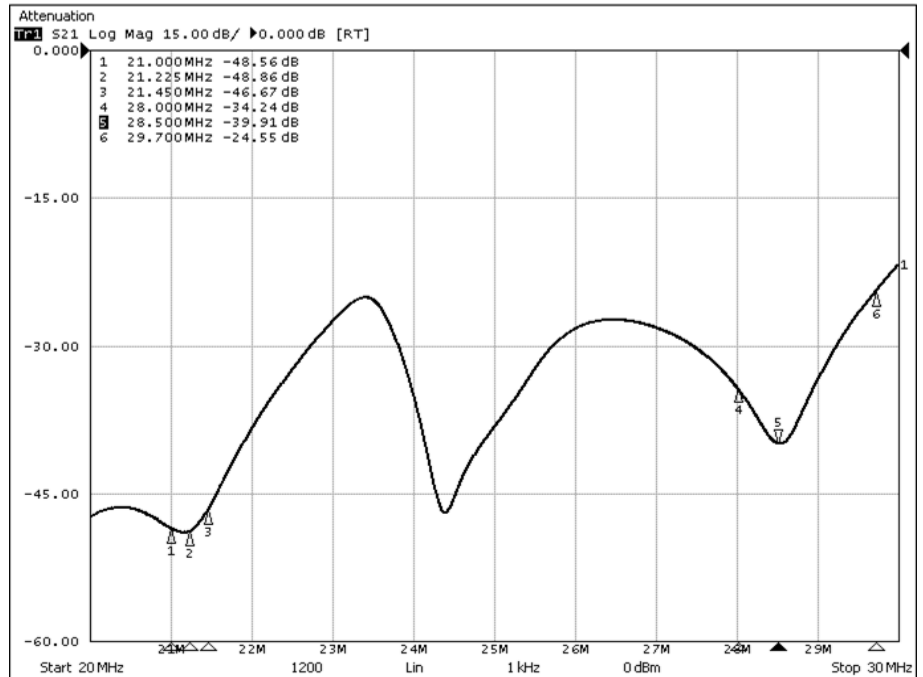
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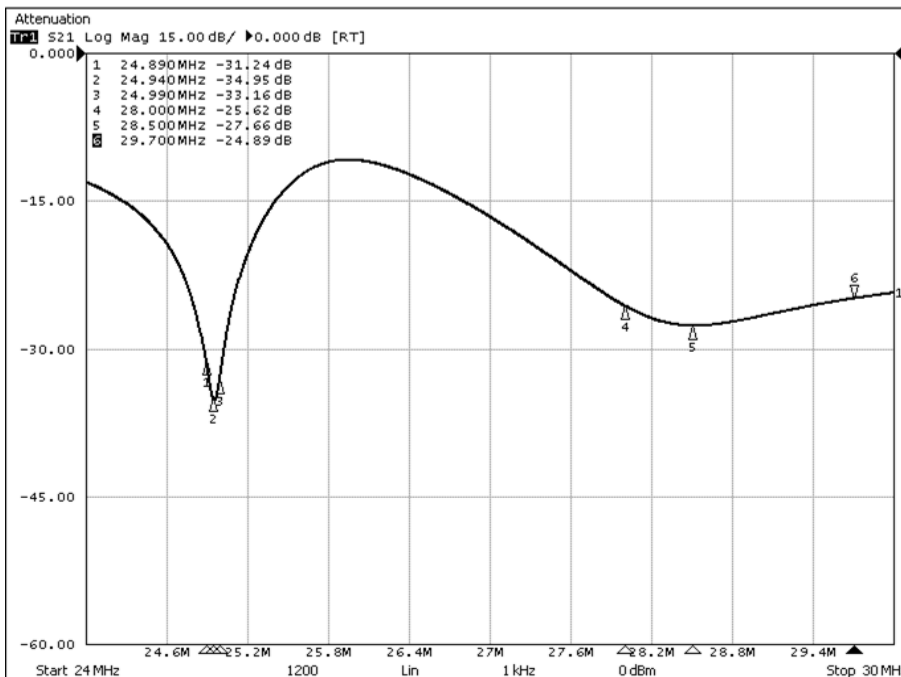
PentaPlexer, 14-18-21-24-28 MHz

Serial number #1118-645, as measured:

Isolation: 21MHz port to 28MHz port



Isolation: 24MHz port to 28MHz port



QC: