

Perfo Box series of Filters and Multiplexers

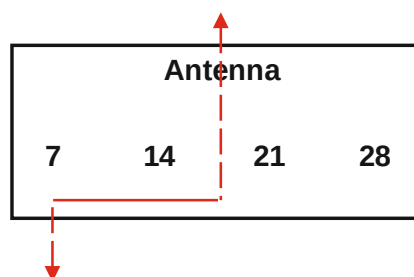
«Perfo Box-1500» QuadPlexer, 7-14-21-28 MHz

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: 360 x 240 x 110 mm / 14" x 10" x 4"
- Net weight: $\leq 3,2$ kg / 7,5 lbs.
- Cooling Fans (option): 1 pcs., 29.9 CFM, 12VDC

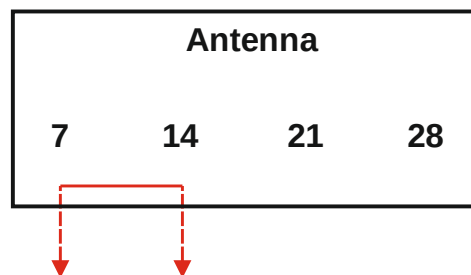
Band INPUT to Antenna OUTPUT, insertion loss (S11) and adjacent band attenuation (S21):

Transmit	Receive level, db.:			
	7	14	21	28
7	-0,15	-35	-60	-45
14	-40	-0.2	-40	-35
21	-40	-30	-0.2	-40
28	-65	-45	-35	-0.15



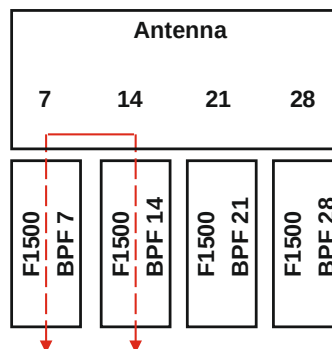
Band to Band, Isolation from port to port (S21, lowest possible numbers at the band edges), Antenna and unused ports terminated 50 ohms:

Transmit	Receive level, db.:			
	7	14	21	28
7	-	-35	-55	-45
14	-35	-	-40	-30
21	-25	-25	-	-25
28	-55	-45	-25	-



Band to Band Isolation (S21, lowest possible numbers at the band edges rounded to 5), **with Band Pass Filters PerfoBox 1500**, Antenna and unused ports terminated 50 ohms:

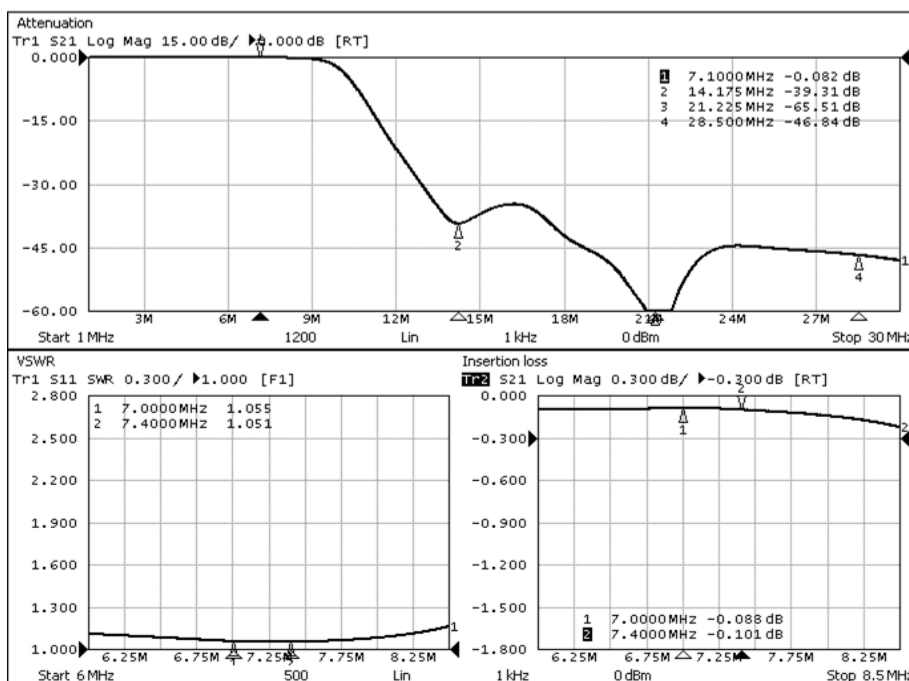
Transmit	Receive level, db.:			
	7	14	21	28
7	-	-95	-105	-105
14	-105	-	-100	-105
21	-100	-85	-	-95
28	-105	-105	-70	-



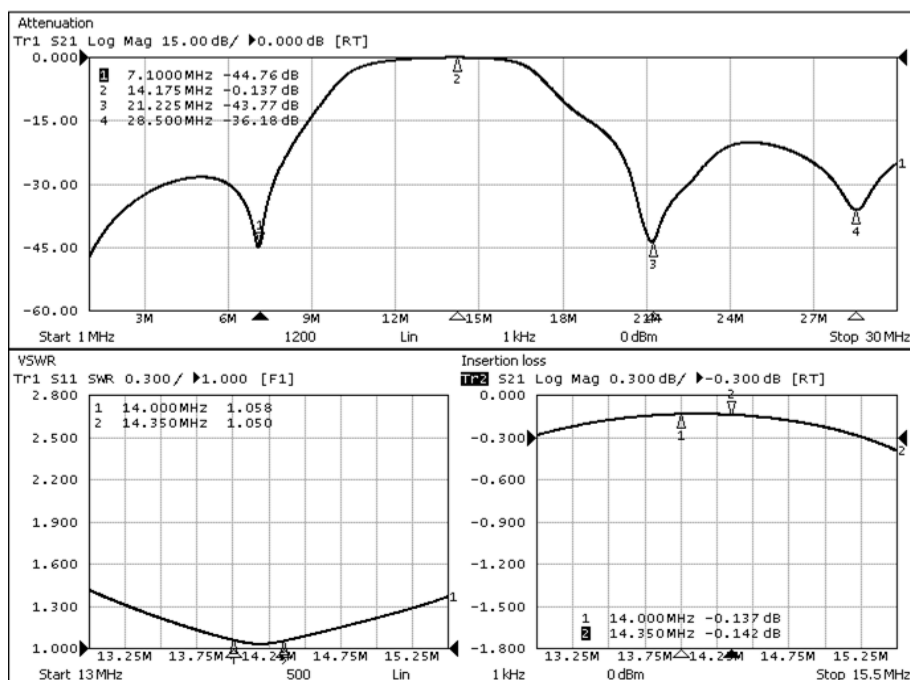
«Perfo Box-1500» QuadPlexer, 7-14-21-28 MHz

Serial number #1018-613, as measured:

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

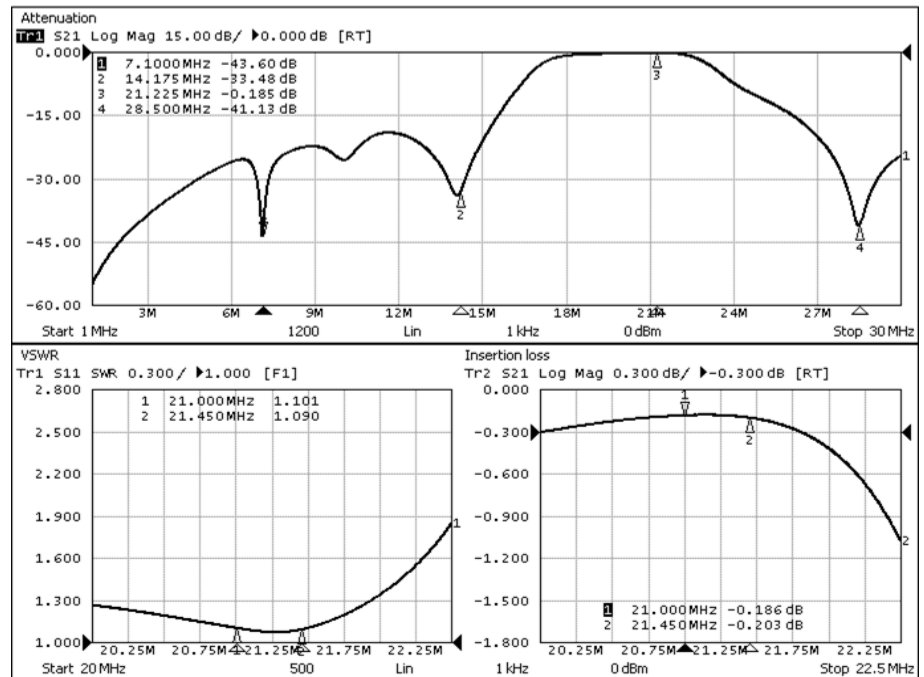


QC:

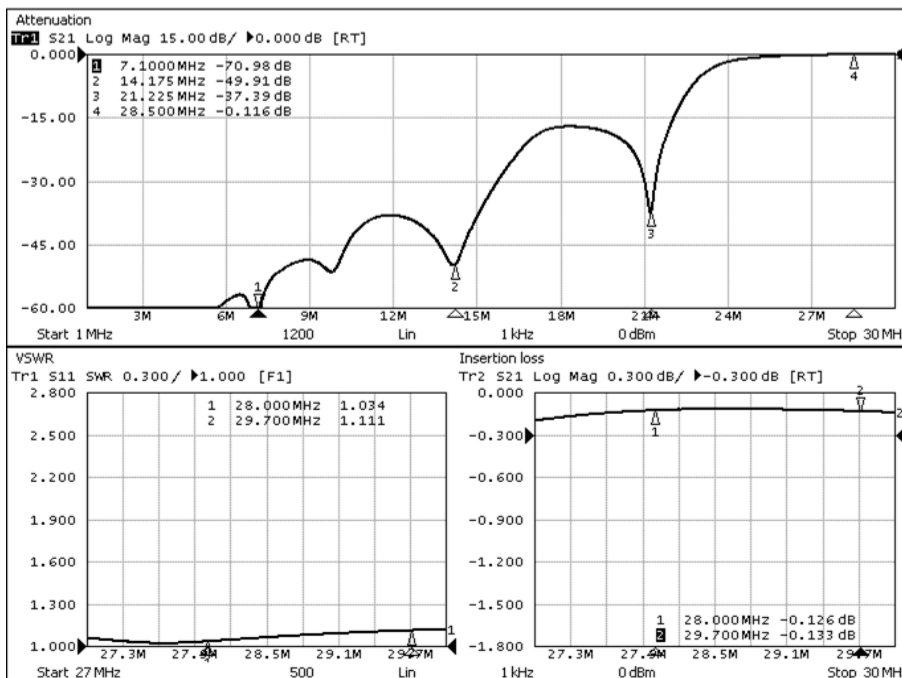
«Perfo Box-1500» QuadPlexer, 7-14-21-28 MHz

Serial number #1018-613, as measured:

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



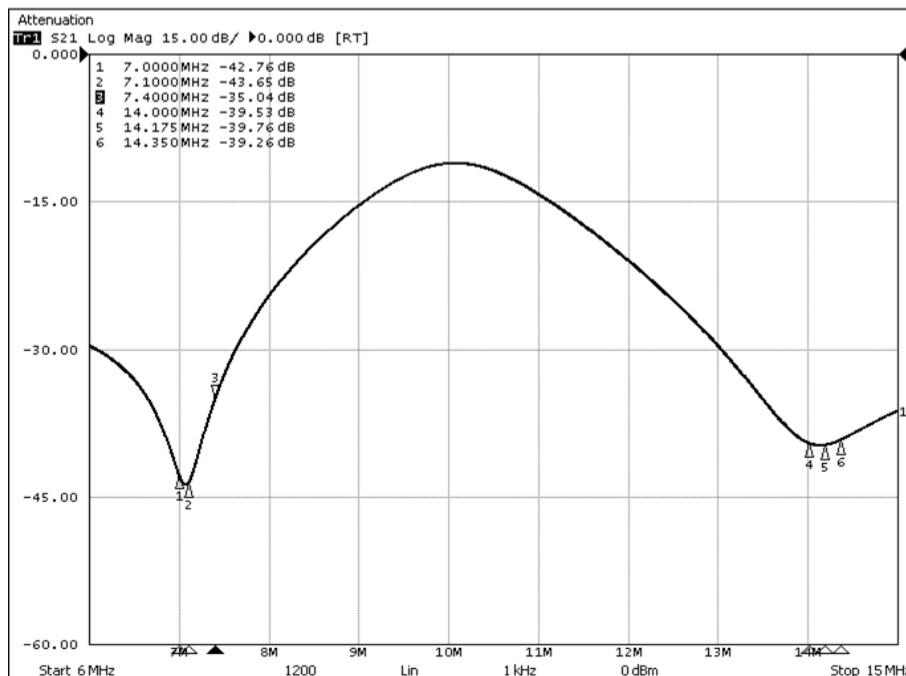
QC:

«Perfo Box-1500»

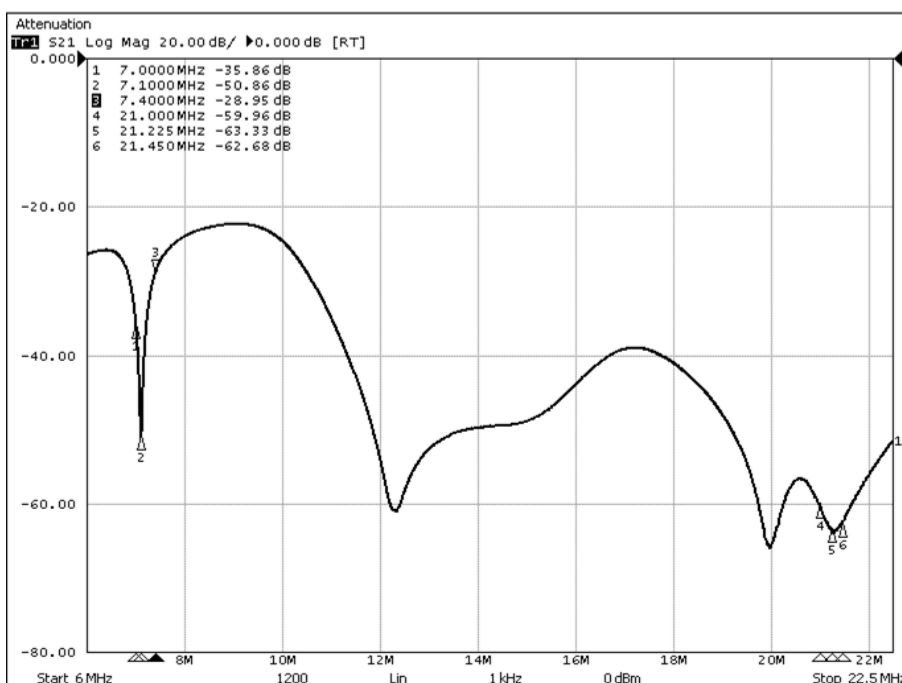
QuadPlexer, 7-14-21-28 MHz

Serial number #1018-613, as measured:

Isolation: 7MHz port to 14MHz port



Isolation: 7MHz port to 21MHz port

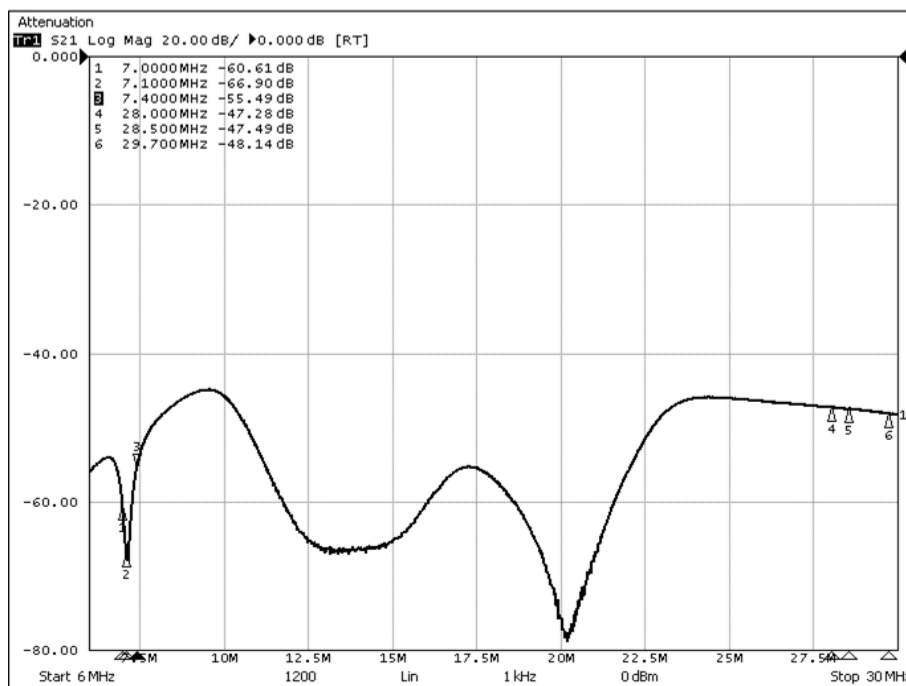


QC:

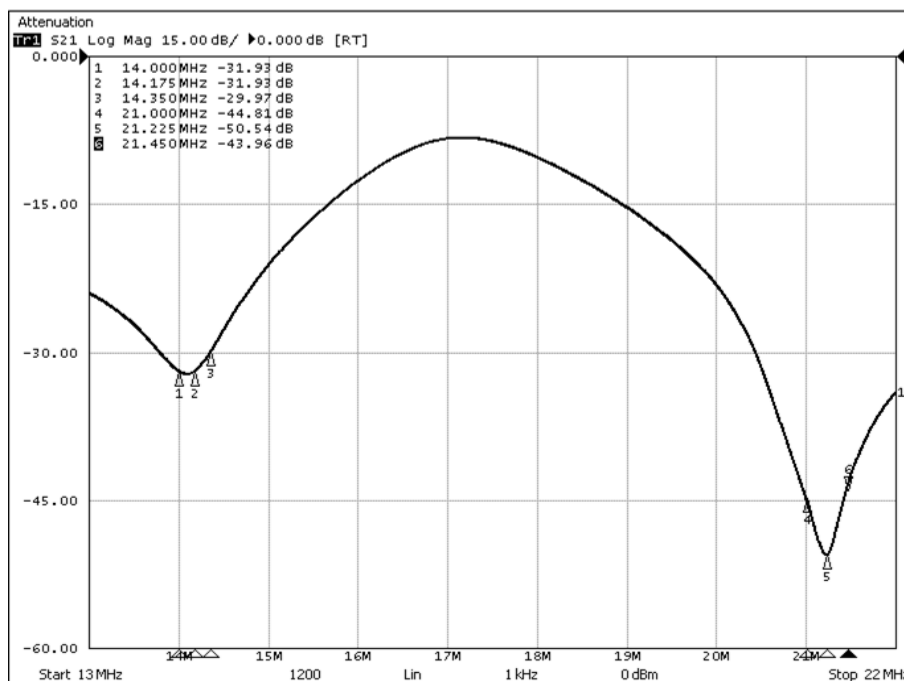
«Perfo Box-1500» QuadPlexer, 7-14-21-28 MHz

Serial number #1018-613, as measured:

Isolation: 7MHz port to 28MHz port



Isolation: 14MHz port to 21MHz port



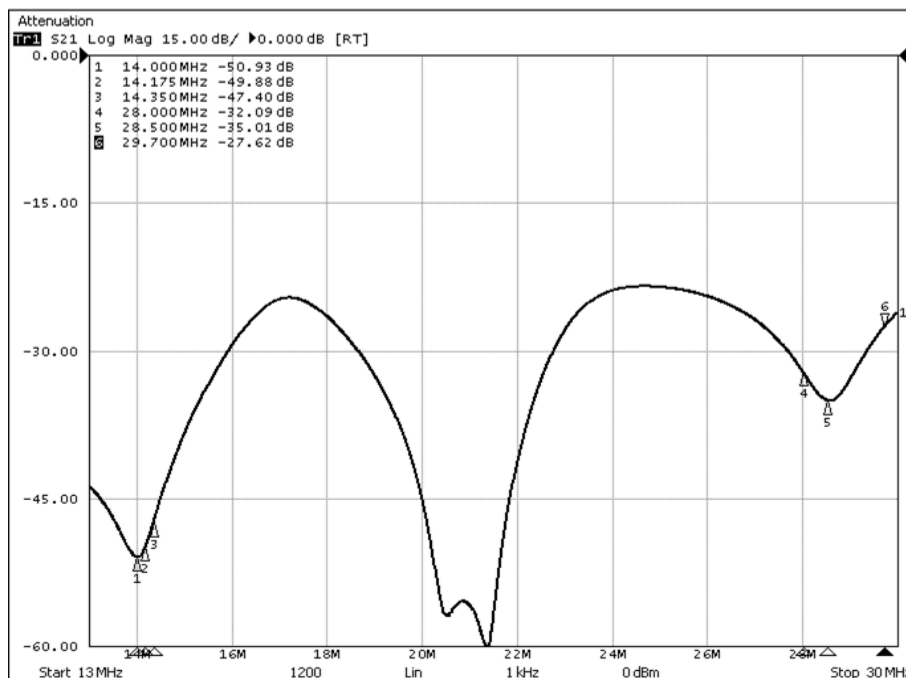
QC:

«Perfo Box-1500»

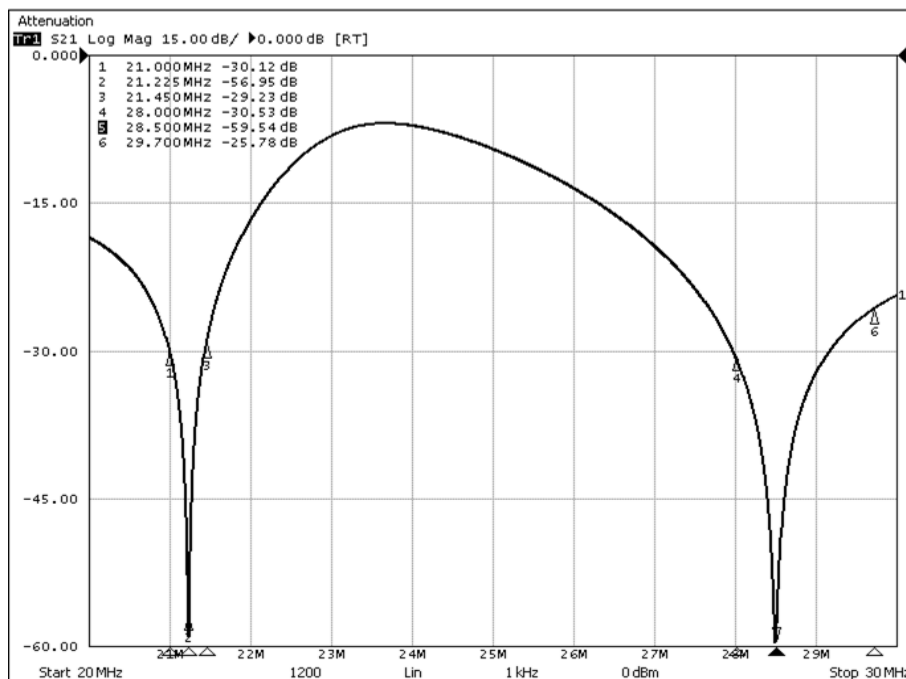
QuadPlexer, 7-14-21-28 MHz

Serial number #1018-613, as measured:

Isolation: 14MHz port to 28MHz port



Isolation: 21MHz port to 28MHz port



QC: