

Filter solutions for HAM RADIO

Perfo Box series of Filters and Multiplexers



«Perfo Box-1500DX»

Typical specifications:

- Bands, Mhz: 1.8-3.5-7-10-14-18-21-24-28
- Impedance: 50 Ohm
- Maximum ICAS power: 1500 W
- VSWR: typical $\leq 1: 1,2$
- Cooling Fans (*option*): 2 x 12VDC, 2200RPM, 29.9CFM, Phoenix pluggable connector

Summary sheet of performances:

Insertion loss (**S11**) and adjacent band attenuation (**S21**, lowest possible numbers at the band edges:

Transmit	Receive level, db.:								
	1,8	3,5	7	10	14	18	21	24	28
1,8	-0,15	-85	-95	-65	-65	-65	-65	-65	-65
3,5	-50	-0,4	-90	-85	-95	-90	-100	-90	-90
7	-60	-85	-0,3	-70	-50	-50	-55	-55	-55
10	-65	-55	-80	-0,4	-92	-85	-103	-55	-55
14	-80	-65	-50	-75	-0,4	-75	-95	-70	-70
18	-90	-75	-65	-60	-85	-0,7	-75	-60	-60
21	-75	-65	-60	-54	-44	-55	-0,5	-75	-60
24	-95	-80	-75	-65	-55	-45	-65	-0,6	-60
28	-95	-90	-90	-80	-70	-65	-90	-65	-0,45

Filter solutions for HAM RADIO



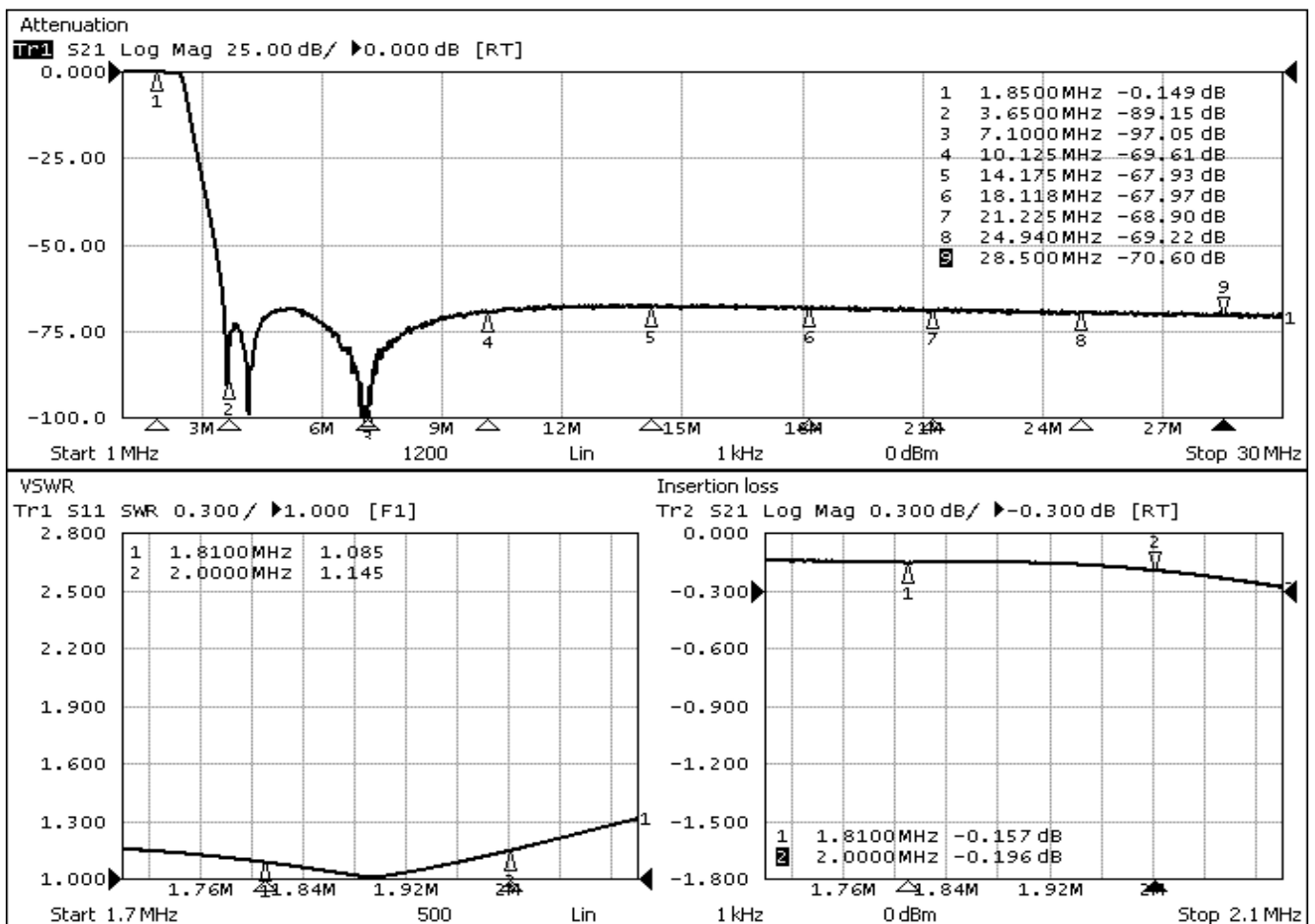
«Perfo Box-1500DX»

Low Pass Filter 1,8 MHz (160 m)

Typical specifications:

Impedance:	50 Ohm
Maximum ICAS power:	1500 W
Losses in the pass band:	typical $\leq 0,2$ dB
VSWR:	typical $\leq 1: 1,15$
Rejection on band UP:	typical ≥ 85 dB
Rejection on UP 2F band:	typical ≥ 90 dB
Cooling fans (<i>option</i>):	12VDC, 2200RPM, 29.9CFM, Phoenix pluggable connector
Size:	450x150x134 mm / 18" x 6" x 5"
Net weight (2 pcs., <i>option fans incl.</i>):	$\leq 2,3$ kg / 5,5 lbs

Serial number #1218-663 as measured:



QC:

Filter solutions for HAM RADIO

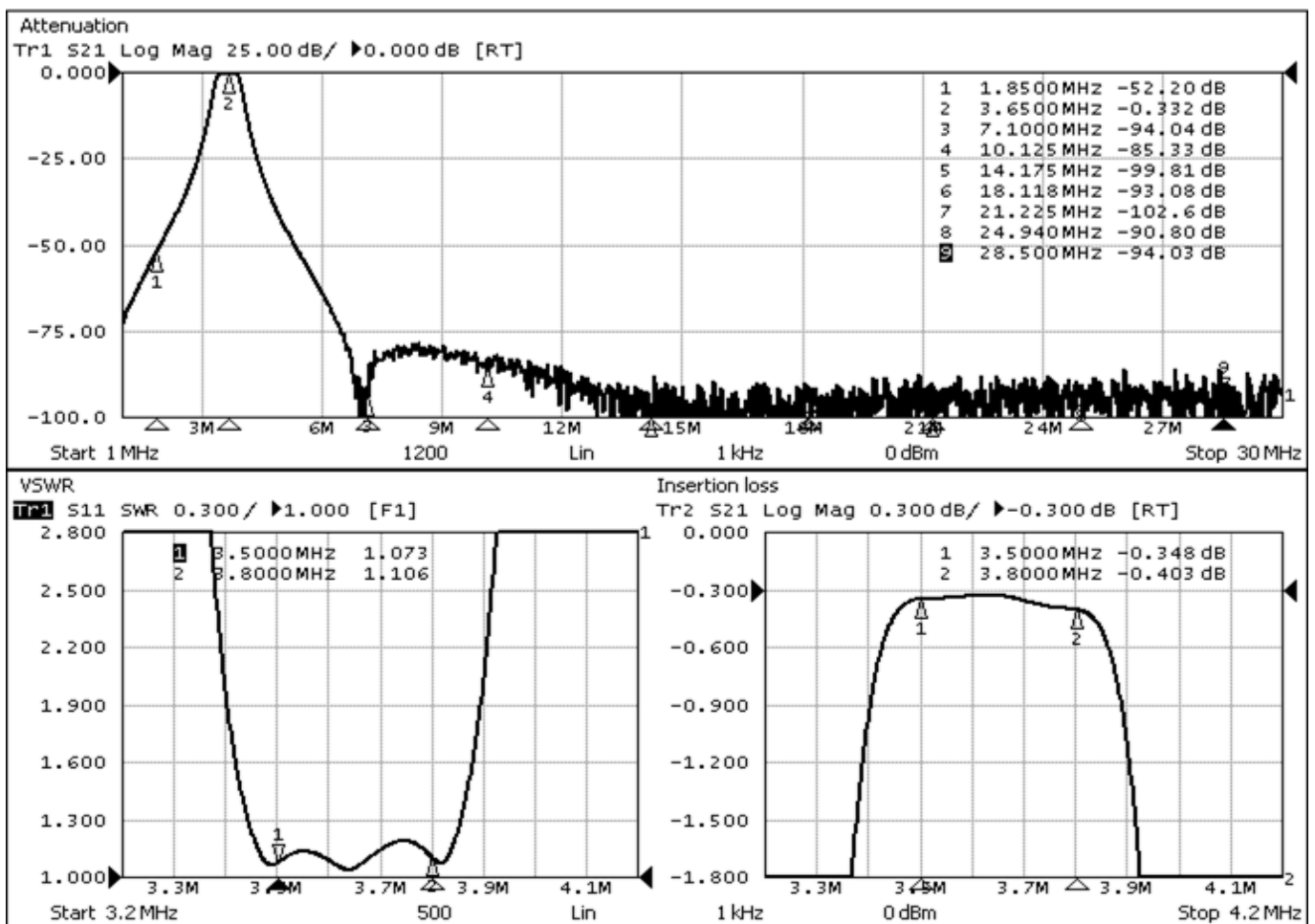


«Perfo Box-1500DX» Band Pass Filter 3,5 MHz (80 m)

Typical specifications:

Impedance:	50 Ohm
Maximum ICAS power:	1500 W
Losses in the pass band:	typical $\leq 0,45$ dB
VSWR:	typical $\leq 1: 1,15$
Rejection on band DOWN:	typical ≥ 50 dB
Rejection on band UP:	typical ≥ 90 dB
Cooling fans (<i>option</i>):	12VDC, 2200RPM, 29.9CFM, Phoenix pluggable connector
Size:	450x150x134 mm / 18" x 6" x 5"
Net weight (2 pcs., <i>option fans incl.</i>):	$\leq 2,6$ kg / 6 lbs

Serial number #1218-665 as measured:



QC:

Filter solutions for HAM RADIO

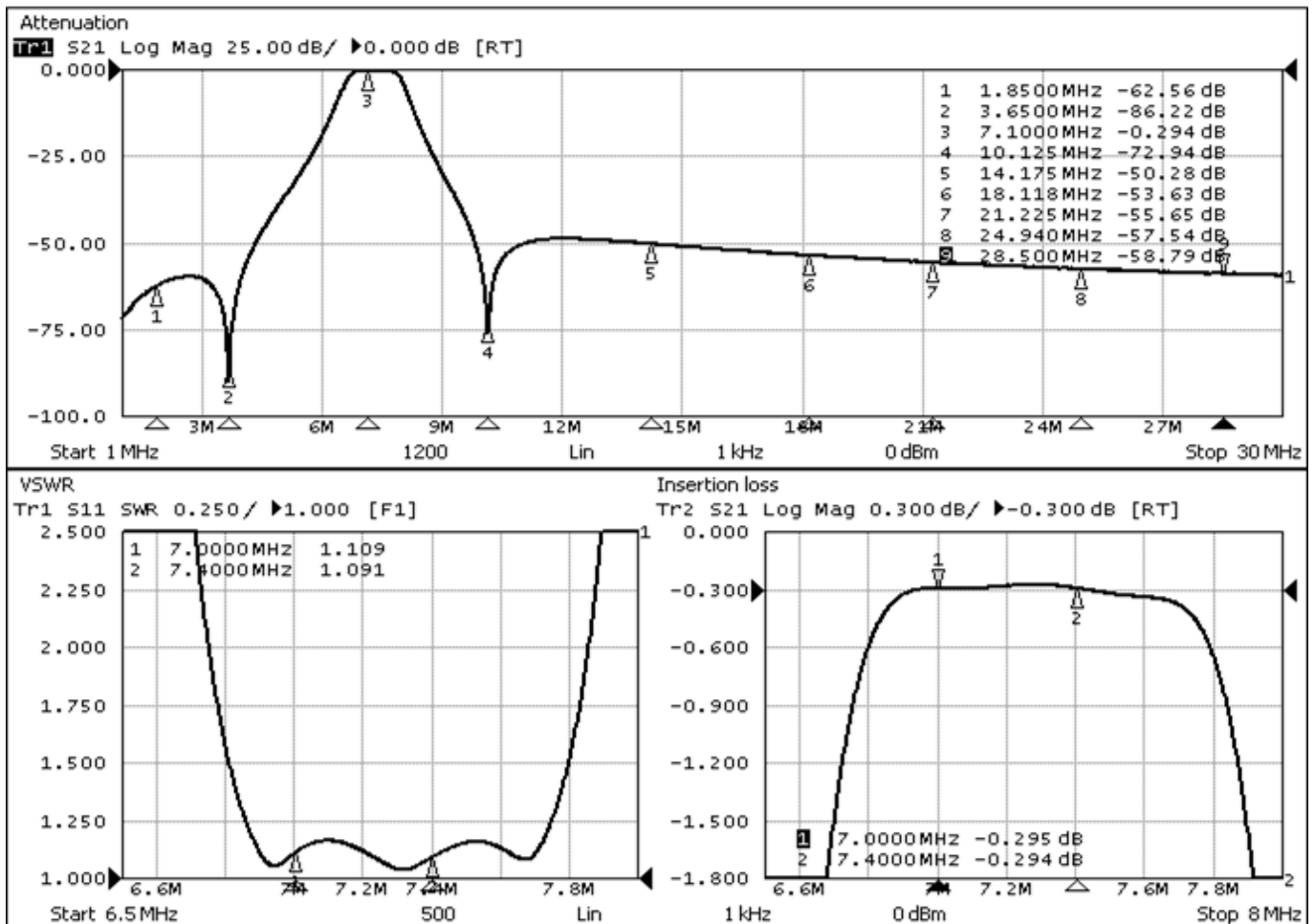


«Perfo Box-1500DX» Band Pass Filter 7 MHz (40 m)

Typical specifications:

Impedance:	50 Ohm
Maximum ICAS power:	1500 W
Losses in the pass band:	typical $\leq 0,3$ dB
VSWR:	typical $\leq 1: 1,15$
Rejection on band DOWN:	typical ≥ 85 dB
Rejection on band UP:	typical ≥ 70 dB
Rejection on 2F band:	typical ≥ 50 dB
Cooling fans (<i>option</i>):	12VDC, 2200RPM, 29.9CFM, Phoenix pluggable connector
Size:	450x150x134 mm / 18" x 6" x 5"
Net weight (2 pcs., <i>option fans incl.</i>):	$\leq 2,55$ kg / 6 lbs

Serial number #1218-667 as measured:



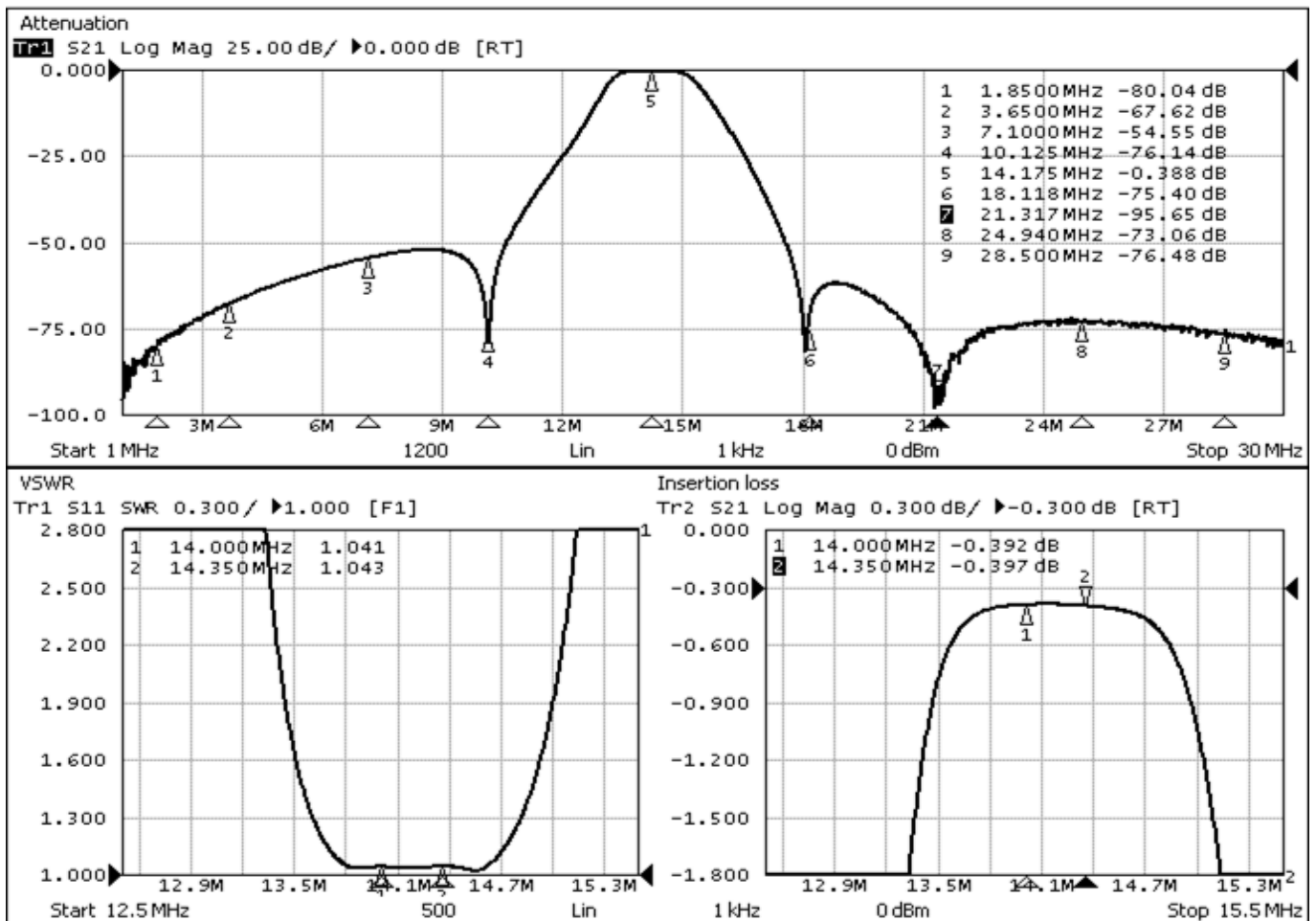
QC:

«Perfo Box-1500DX» Band Pass Filter 14 MHz (20 m)

Typical specifications:

Impedance:	50 Ohm
Maximum ICAS power:	1500 W
Losses in the pass band:	typical $\leq 0,4$ dB
VSWR:	typical $\leq 1: 1,15$
Rejection on band DOWN:	typical ≥ 75 dB
Rejection on band UP:	typical ≥ 75 dB
Rejection on 2F band:	typical ≥ 75 dB
Cooling fans (<i>option</i>):	12VDC, 2200RPM, 29.9CFM, Phoenix pluggable connector
Size:	450x150x134 mm / 18" x 6" x 5"
Net weight (2 pcs., <i>option fans incl.</i>):	$\leq 2,4$ kg / 5,5 lbs

Serial number #1218-669 as measured:



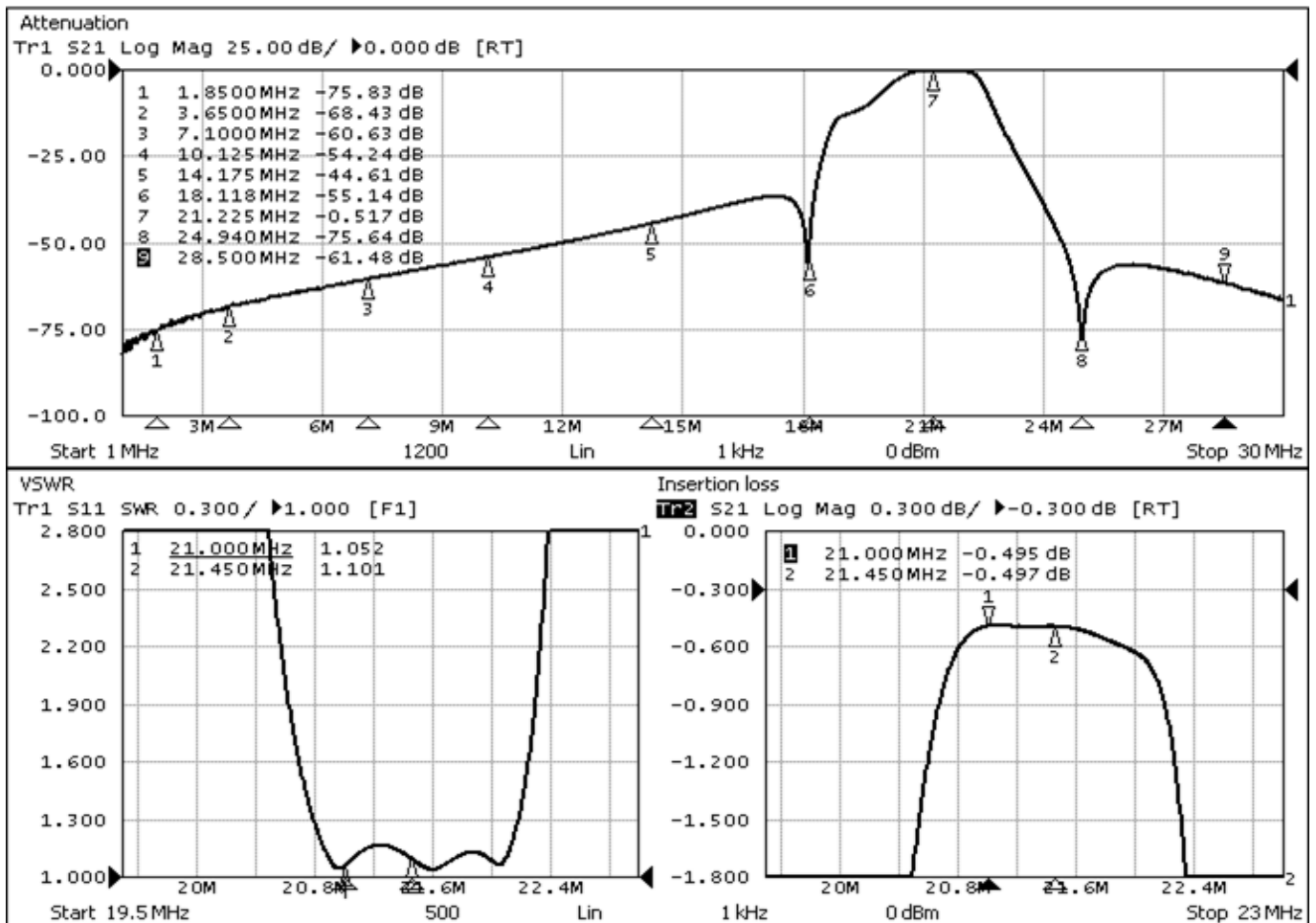
QC:

«Perfo Box-1500DX» Band Pass Filter 21 MHz (15 m)

Typical specifications:

Impedance:	50 Ohm
Maximum ICAS power:	1500 W
Losses in the pass band:	typical $\leq 0,5$ dB
VSWR:	typical $\leq 1: 1,15$
Rejection on band DOWN:	typical ≥ 55 dB
Rejection on band UP:	typical ≥ 75 dB
Rejection on F/3 band:	typical ≥ 60 dB
Cooling fans (<i>option</i>):	12VDC, 2200RPM, 29.9CFM, Phoenix pluggable connector
Size:	450x150x134 mm / 18" x 6" x 5"
Net weight (2 pcs., <i>option fans incl.</i>):	$\leq 2,4$ kg / 5,5 lbs

Serial number #1218-671 as measured:



QC:

Filter solutions for HAM RADIO

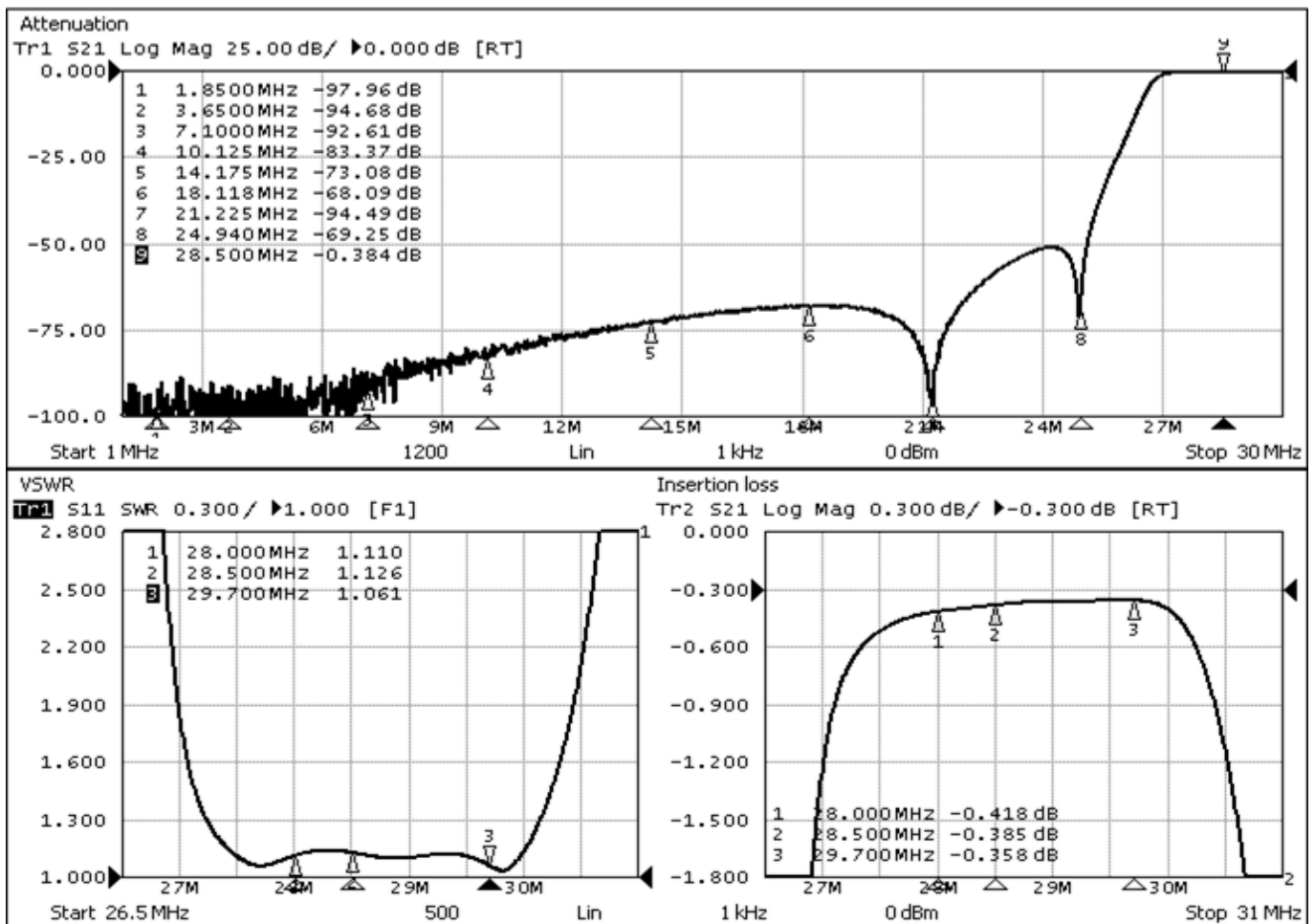


«Perfo Box-1500DX» Band Pass Filter 28 MHz (10 m)

Typical specifications:

Impedance:	50 Ohm
Maximum ICAS power:	1500 W
Losses in the pass band:	typical $\leq 0,45$ dB
VSWR:	typical $\leq 1: 1,15$
Rejection on band DOWN:	typical ≥ 65 dB
Rejection on F/2 band:	typical ≥ 70 dB
Cooling fans (<i>option</i>):	12VDC, 2200RPM, 29.9CFM, Phoenix pluggable connector
Size:	450x150x134 mm / 18" x 6" x 5"
Net weight (2 pcs., <i>option fans incl.</i>):	$\leq 2,1$ kg / 5 lbs

Serial number #1218-673 as measured:



QC:

Filter solutions for HAM RADIO

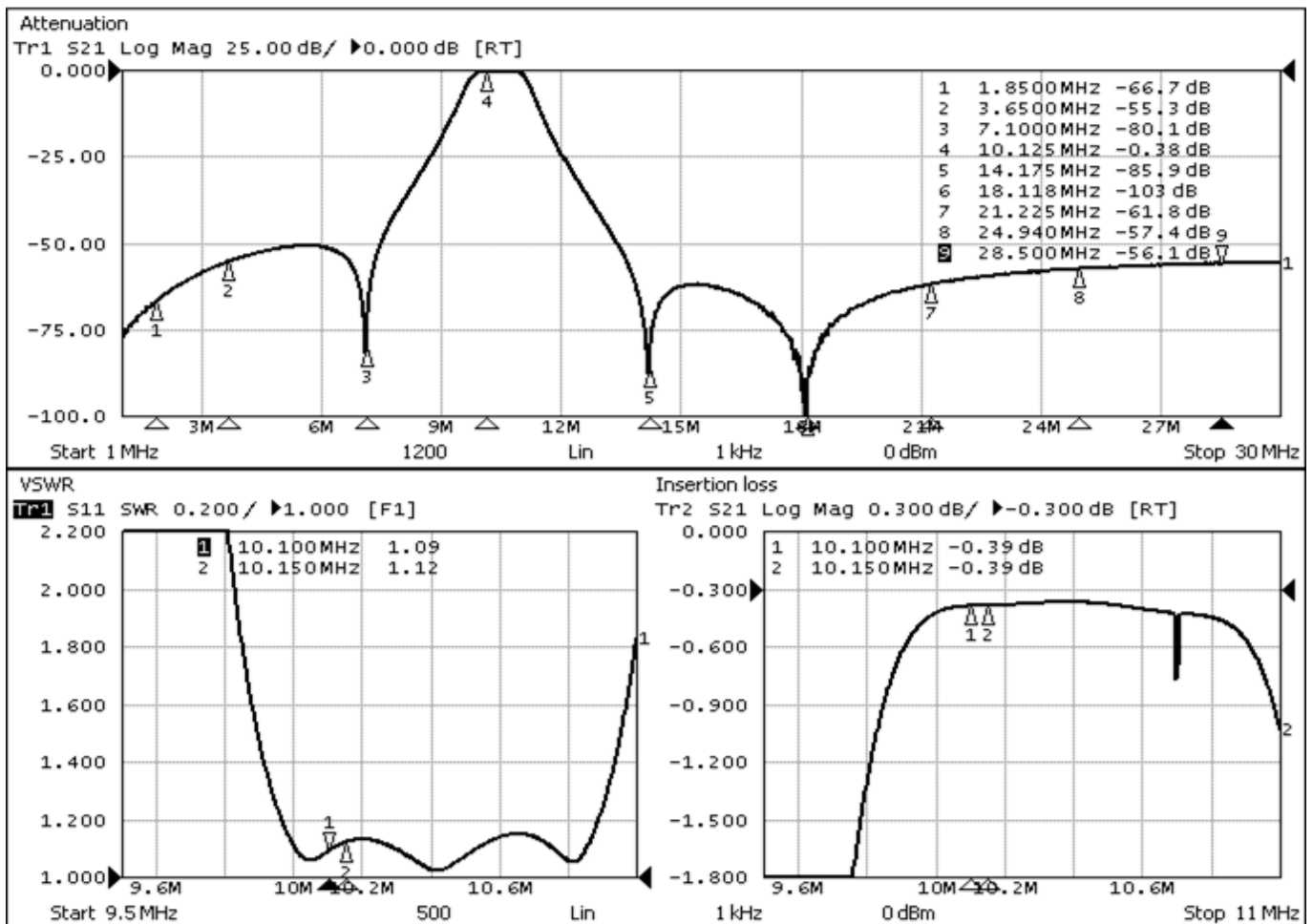


«Perfo Box-1500DX» Band Pass Filter 10 MHz (30 m)

Typical specifications:

Impedance:	50 Ohm
Maximum ICAS power:	1500 W
Losses in the pass band:	typical $\leq 0,4$ dB
VSWR:	typical $\leq 1: 1,15$
Rejection on band DOWN:	typical ≥ 80 dB
Rejection on band UP:	typical ≥ 80 dB
Cooling fans (<i>option</i>):	12VDC, 2200RPM, 29.9CFM, Phoenix pluggable connector
Size:	450x150x134 mm / 18" x 6" x 5"
Net weight (2 pcs., <i>option fans incl.</i>):	$\leq 2,3$ kg / 5,5 lbs

Serial number #1218-675 as measured:



QC:

Filter solutions for HAM RADIO

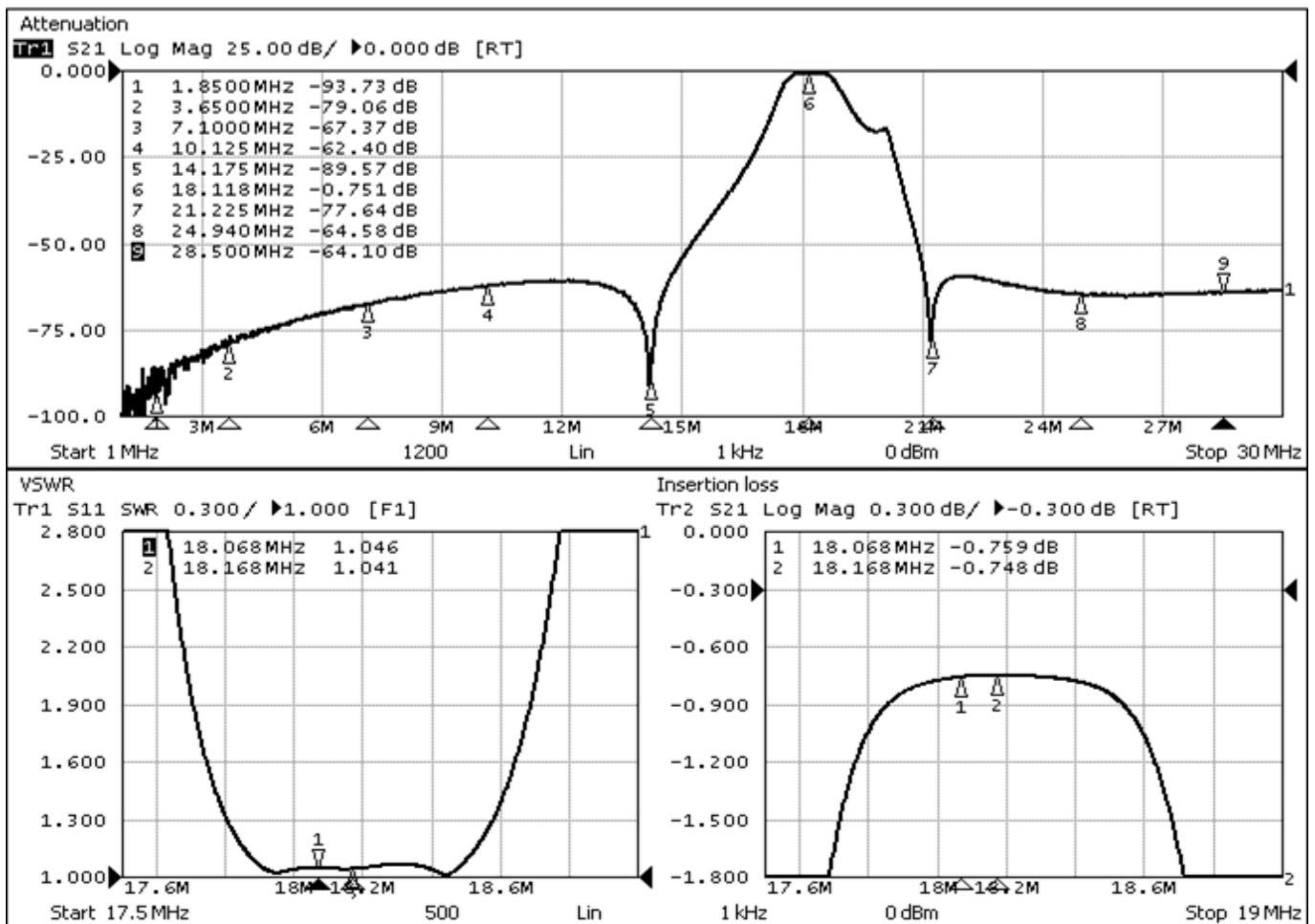


«Perfo Box-1500DX» Band Pass Filter 18 MHz (17 m)

Typical specifications:

Impedance:	50 Ohm
Maximum ICAS power:	1500 W
Losses in the pass band:	typical $\leq 0,75$ dB
VSWR:	typical $\leq 1: 1,15$
Rejection on band DOWN:	typical ≥ 85 dB
Rejection on band UP:	typical ≥ 75 dB
Cooling fans (<i>option</i>):	12VDC, 2200RPM, 29.9CFM, Phoenix pluggable connector
Size:	450x150x134 mm / 18" x 6" x 5"
Net weight (2 pcs., <i>option fans incl.</i>):	$\leq 2,3$ kg / 5,5 lbs

Serial number #1218-676 as measured:



QC:

Filter solutions for HAM RADIO

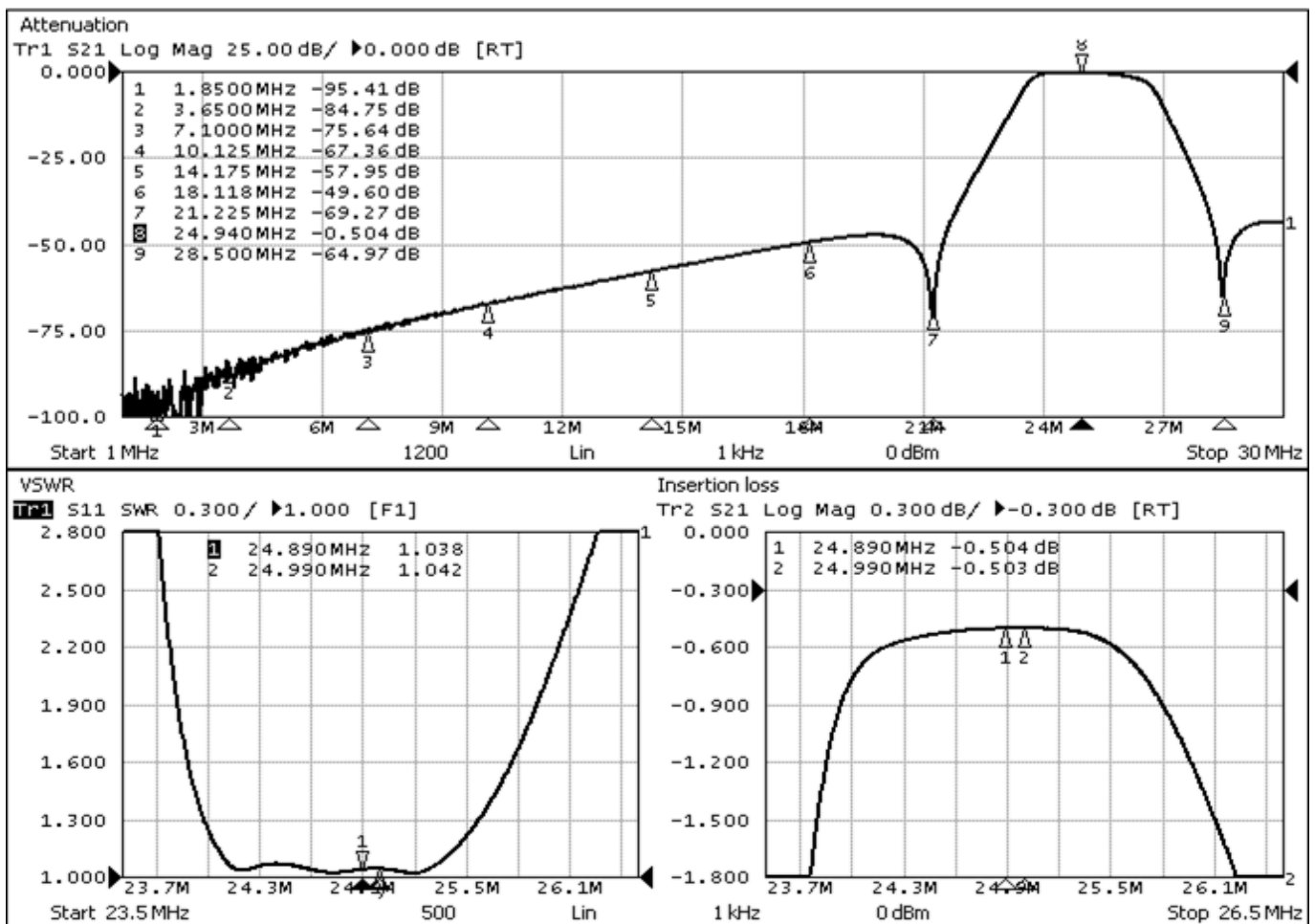


«Perfo Box-1500DX» Band Pass Filter 24 MHz (12 m)

Typical specifications:

Impedance:	50 Ohm
Maximum ICAS power:	1500 W
Losses in the pass band:	typical $\leq 0,6$ dB
VSWR:	typical $\leq 1: 1,15$
Rejection on band DOWN:	typical ≥ 65 dB
Rejection on band UP:	typical ≥ 60 dB
Cooling fans (<i>option</i>):	12VDC, 2200RPM, 29.9CFM, Phoenix pluggable connector
Size:	450x150x134 mm / 18" x 6" x 5"
Net weight (2 pcs., <i>option fans incl.</i>):	$\leq 2,2$ kg / 5 lbs

Serial number #1218-678 as measured:



QC: