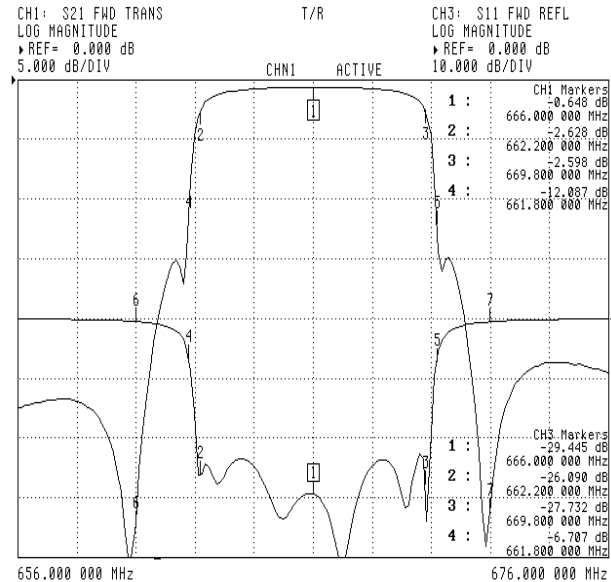


Band IV-V

150W DVB UHF 6 Poles B. P. Filter with dual Cross Coupling Critical/ Uncritical Mask



Mechanical Characteristics

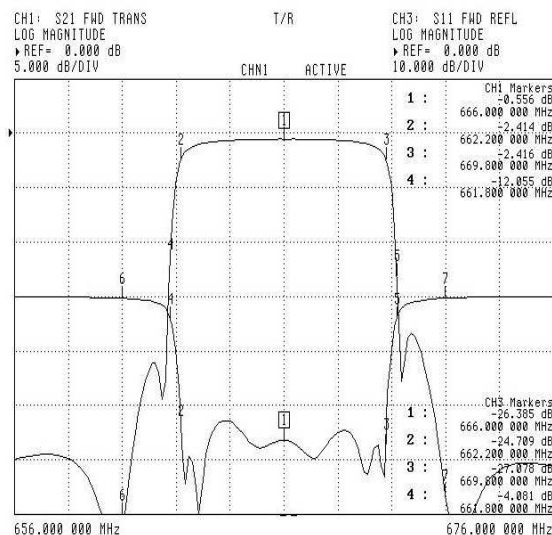
Connections	N
Overall dimensions [WxDxH] [mm.]	90x180x290
Maximum Operating Temperature [C°]	70
Temperature Stability [kHz / K]	≤ 2
Weight [kg.]	3.5

Electrical Characteristics

Frequency Range [MHz]	470 ÷ 862
Insertion Loss [dB] @ Fo	< 0.7
Insertion Loss [dB] @ Fo ± 3.805 MHz	< 2.7
Attenuation @ Fo ± 4.2 MHz [dB]	> 12
Attenuation @ Fo ± 6 MHz [dB]	> 24
Attenuation @ Fo ± 12 MHz [dB]	> 36
Maximum amplitude variation [dB]	2
Return loss [dB]	> 20
Input/Output Impedance [Ohm]	50
Maximum Input Power [W]	150 (r.m.s.)
Max. Group Delay Variation [ns]	300

Band IV-V

300W UHF/DVB 6 Poles B. P. Filter with dual Cross Coupling Critical / Uncritical Mask



Mechanical Characteristics

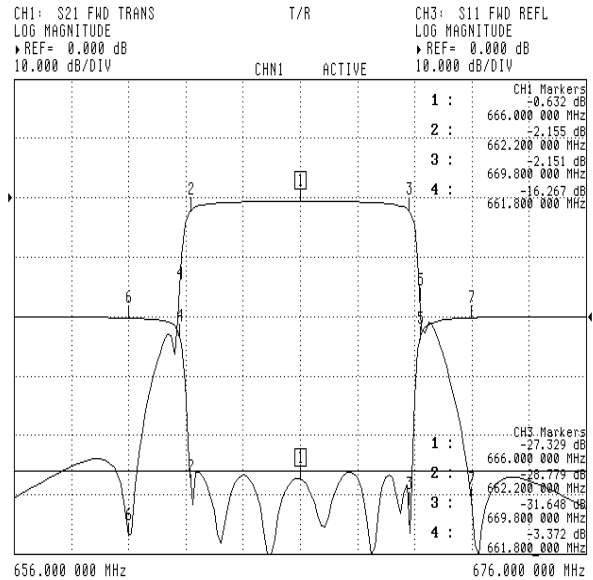
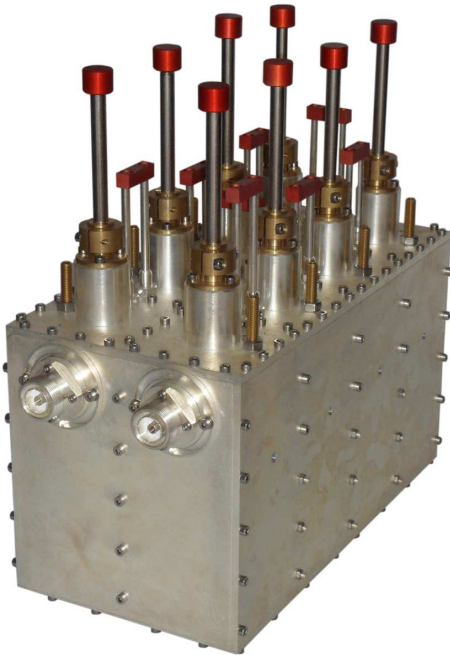
Connections	DIN 7/16
Overall dimensions [WxDxH] [mm.]	210x113x330
Maximum Operating Temperature [C°]	70
Temperature Stability [kHz / K]	≤ 2
Weight [kg.]	7

Electrical Characteristics

Frequency Range [MHz]	470 ÷ 862
Insertion Loss [dB] @ Fo	< 0.6
Insertion Loss [dB] @ Fo ± 3.805 MHz	< 2.4
Attenuation @ Fo ± 4.2 MHz [dB]	> 12
Attenuation @ Fo ± 6 MHz [dB]	> 24
Attenuation @ Fo ± 12 MHz [dB]	> 36
Maximum amplitude variation [dB]	1.8
Return loss [dB]	> 22
Input/Output Impedance [Ohm]	50
Maximum Input Power [W]	300 (r.m.s.)
Max. Group Delay Variation [ns]	300

Band IV-V

600W UHF/DVB 8 Poles B. P. Filter with dual Cross Coupling Critical Mask

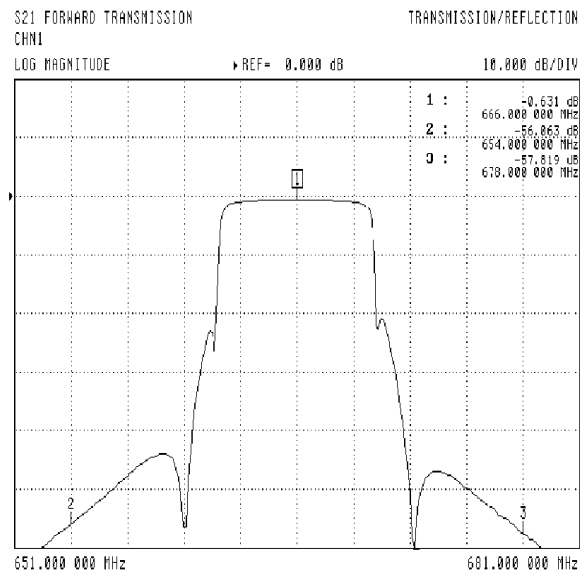


Mechanical Characteristics

Connections	DIN 7/16
Overall dimensions [WxDxH] [mm.]	203x385x400
Maximum Operating Temperature [C°]	70
Temperature Stability [kHz / K]	≤ 2
Weight [kg.]	15

Electrical Characteristics

Frequency Range [MHz]	470 ÷ 862
Insertion Loss [dB] @ Fo	< 0.7
Insertion Loss [dB] @ Fo ± 3.805 MHz	< 2.4
Attenuation @ Fo ± 4.2 MHz [dB]	> 15
Attenuation @ Fo ± 6 MHz [dB]	> 30
Attenuation @ Fo ± 12 MHz [dB]	> 50
Maximum amplitude variation [dB]	1.7
Return loss [dB]	> 26
Input/Output Impedance [Ohm]	50
Maximum Input Power [W]	600 (r.m.s.)
Max. Group Delay Variation [ns]	350



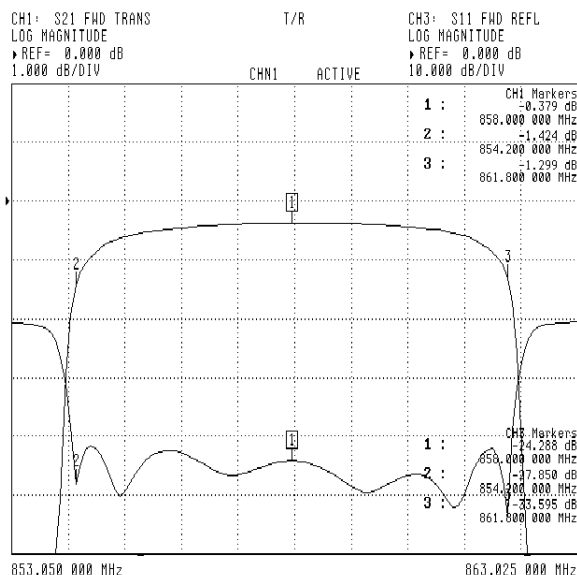
Technical data sheet

Part Number **1601-6-2N**

Digital Video Broadcasting

Band IV-V

**1.5kW UHF/DVB 6 Poles B. P. Filter with dual Cross Coupling
Critical / Uncritical Mask**

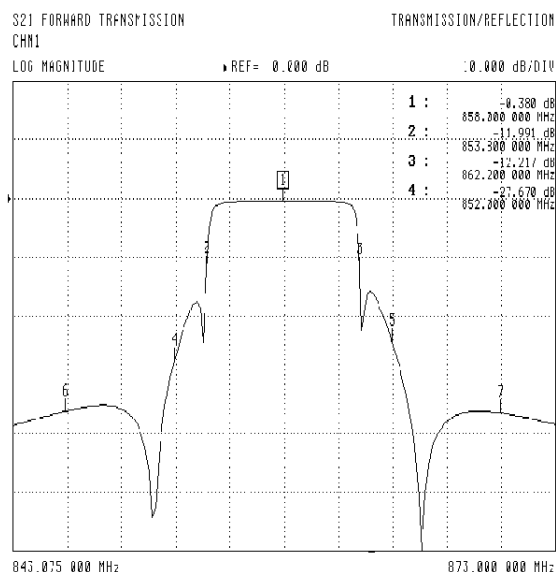


Mechanical Characteristics

Connections	EIA 7/8"
Overall dimensions [WxDxH] [mm.]	271x400x400
Maximum Operating Temperature [C°]	70
Temperature Stability [kHz / K]	≤ 2
Weight [kg.]	16

Electrical Characteristics

Frequency Range [MHz]	470 ÷ 862
Insertion Loss [dB] @ Fo	< 0.45
Insertion Loss [dB] @ Fo ± 3.805 MHz	< 1.45
Attenuation @ Fo ± 4.2 MHz [dB]	> 12
Attenuation @ Fo ± 6 MHz [dB]	> 24
Attenuation @ Fo ± 12 MHz [dB]	> 36
Maximum amplitude variation [dB]	1
Return loss [dB]	> 22
Input/Output Impedance [Ohm]	50
Maximum Input Power [W]	1500 (r.m.s.)
Max. Group Delay Variation [ns]	300

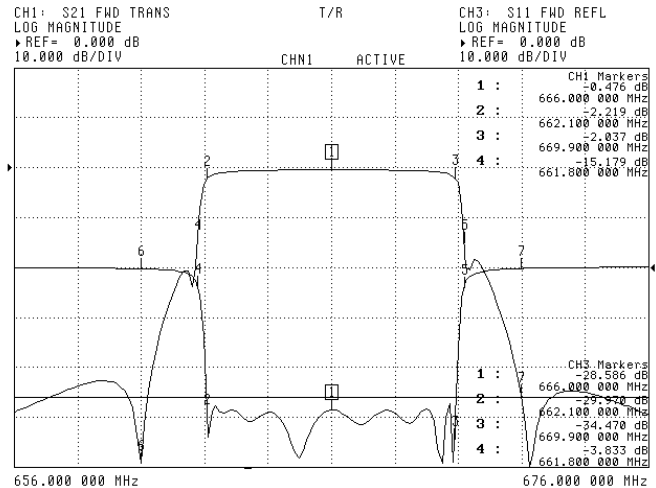


Technical data sheet

Part Number **1601-8-2N**

Digital Video Broadcasting

Band IV-V 1.5kW UHF/DVB 8 Poles B. P. Filter with dual Cross Coupling - Critical Mask

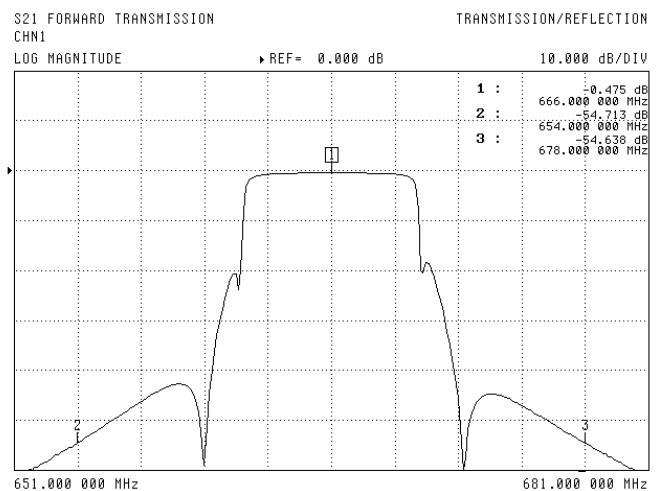


Mechanical Characteristics

Connections	EIA 7/8"
Overall dimensions [WxDxH] [mm.]	282x536x400
Maximum Operating Temperature [C°]	70
Temperature Stability [kHz / K]	≤ 2
Weight [kg.]	16

Electrical Characteristics

Frequency Range [MHz]	470 ÷ 862
Insertion Loss [dB] @ Fo	< 0.6
Insertion Loss [dB] @ Fo ± 3.805 MHz	< 2
Attenuation @ Fo ± 4.2 MHz [dB]	> 15
Attenuation @ Fo ± 6 MHz [dB]	> 30
Attenuation @ Fo ± 12 MHz [dB]	> 50
Maximum amplitude variation [dB]	1.4
Return loss [dB]	> 26
Input/Output Impedance [Ohm]	50
Maximum Input Power [W]	1500 (R.M.S.)
Max. Group Delay Variation [ns]	350



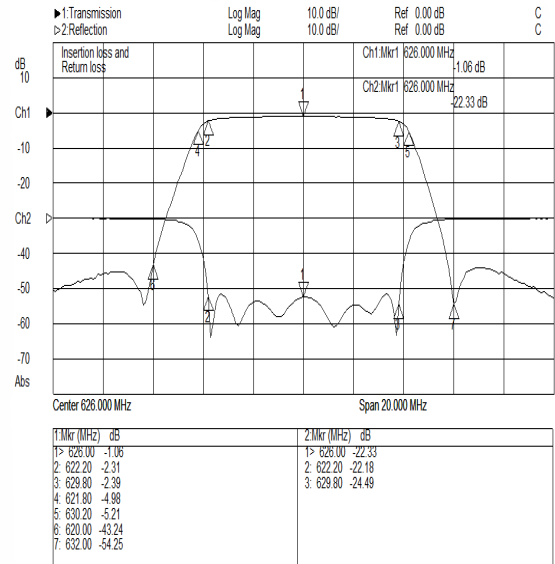
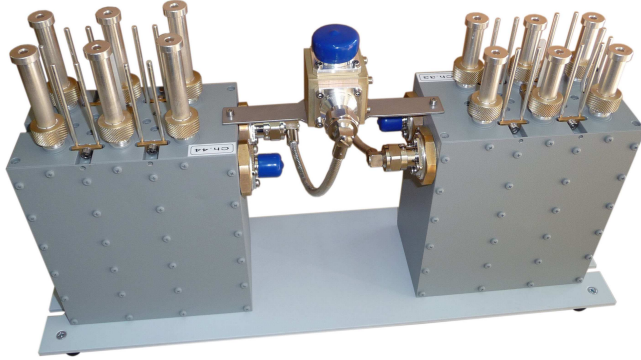
Technical data sheet

Part Number **1645-6-S2-RS**

Star type configuration

Band IV-V

2x100W UHF/DVB Star Point Combiner rack version - Uncritical Mask -



Mechanical Characteristics

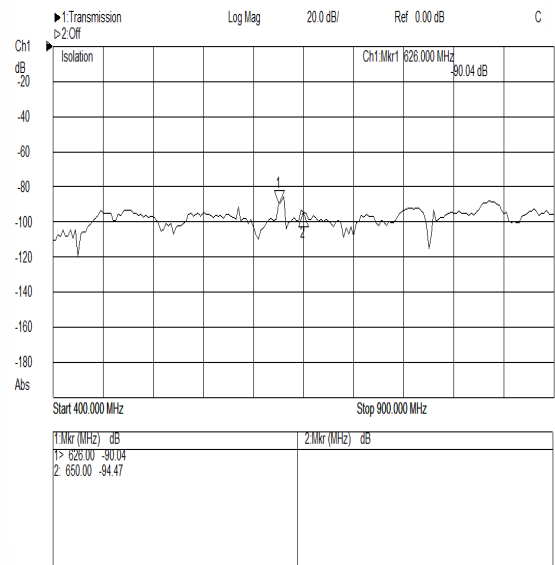
Connections

Input	N
output	DIN 7/16

Overall dimensions [WxDxH] [mm.]	483x320x132.5(3U)
Maximum Operating Temperature [C°]	70
Weight [kg.]	11

Electrical Characteristics

Frequency Range [MHz]	470 ÷ 862
Insertion Loss [dB] @ V.C.	1.1
Return loss by Channels [dB]	22
Input/Output Impedance [Ohm]	50
Minimum Distance Between Channels	2 guard channels
Insulation Between Channels [dB]	30
Maximum Channel Input Power [W]	100 DTV
Maximum Output Power [W]	200 DTV
Max. Group Delay Variation [ns]	300



Technical data sheet

Part Number **1426-4-N-DP-T**

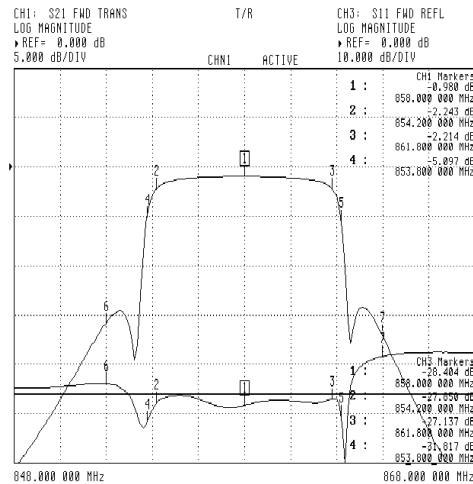
Double bridge configuration

Band IV-V

2 inputs UHF/DVB Double Bridge Combiner - Uncritical Mask -



Narrow Band Input Insertion Loss, Return Loss and Attenuation



Mechanical Characteristics

Connections

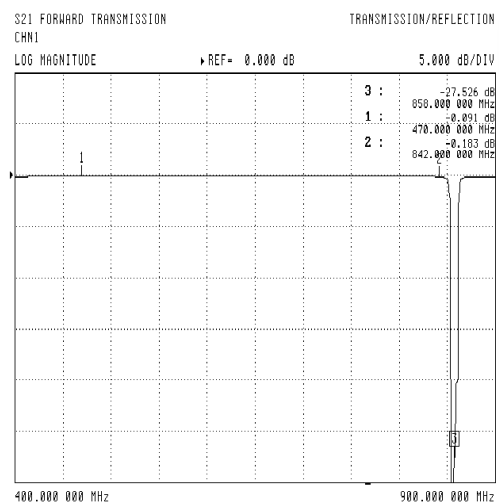
Input narrowband	N
Input broadband	N
output	N or DIN 7/16

Overall dimensions [WxDxH] [mm.]	175x350x356
Maximum Operating Temperature [C°]	70
Weight [kg.]	12

Electrical Characteristics

Frequency Range [MHz]	470 ÷ 862
Bandwidth [MHz]	6 ÷ 8
Insertion Loss [dB] @ Fo	< 1
Insertion Loss [dB] @ Fo ± 3.805 MHz	< 2.2
Attenuation @ Fo ± 4.2 MHz [dB]	> 5
Attenuation @ Fo ± 6 MHz [dB]	> 16
Attenuation @ Fo ± 12 MHz [dB]	> 40
Broad-band Insertion Loss [dB]	> 0.3
Return loss [dB]	> 26
Insulation [dB]	> 30
Input/Output Impedance [Ohm]	50
Minimum Distance Between Channels	1 guard channel
Narrow-band Maximum Power [W]	150 DTV
Maximum Output Power [W]	300 DTV
Max. Group Delay Variation [ns]	300

Broad Band Input Insertion Loss



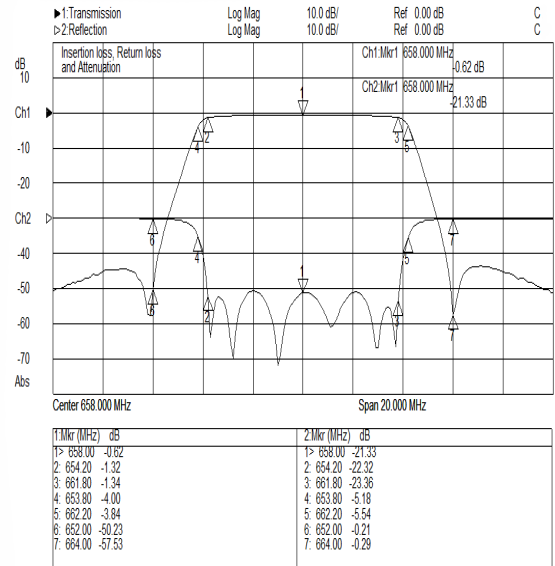
Technical data sheet

Part Number **1494-6-S2**

Star type configuration

Band IV-V

2x500W UHF/DVB Star Point Combiner - Uncritical Mask -



Mechanical Characteristics

Connections

Input
output

DIN 7/16
EIA 7/8"

Overall dimensions [WxDxH] [mm.] 670x200x420

Maximum Operating Temperature [C°] 70

Weight [kg.] 30

Electrical Characteristics

Frequency Range [MHz] 470 ÷ 862

Insertion Loss [dB] @ V.C. 0.75

Return loss by Channels [dB] 20

Input/Output Impedance [Ohm] 50

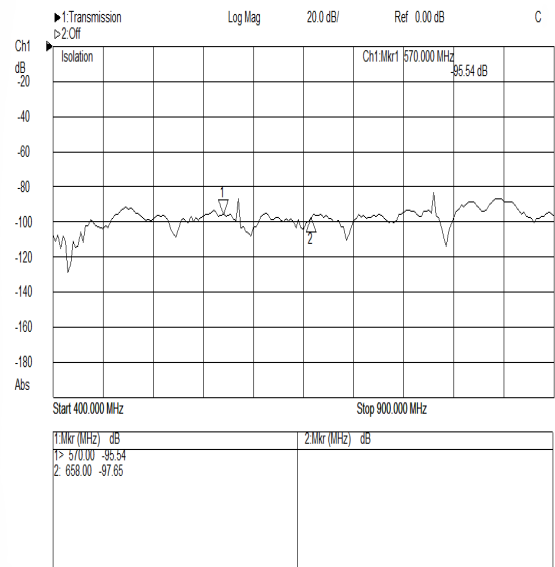
Minimum Distance Between Channels 2 guard channel

Insulation Between Channels [dB] 30

Maximum Channel Input Power [W] 500 DTV

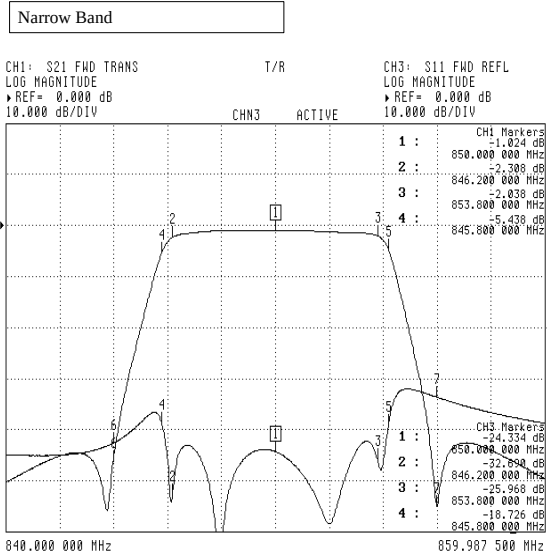
Maximum Output Power [W] 1000 DTV

Max. Group Delay Variation [ns] 300



Band IV-V

2 inputs UHF/DVB Double Bridge Combiner - Uncritical Mask -



Mechanical Characteristics

Connections

Input narrowband	DIN 7/16
Input broadband	DIN 7/16
output	EIA 7/8

Overall dimensions [WxDxH] [mm.] 190x637x430

Maximum Operating Temperature [C°] 70

Weight [kg.] 24

Electrical Characteristics

Frequency Range [MHz] 470 ÷ 862

Bandwidth [MHz] 6 ÷ 8

Insertion Loss [dB] @ Fo < 1

Insertion Loss [dB] @ Fo ± 3.805 MHz < 2.3

Attenuation @ Fo ± 4.2 MHz [dB] > 5

Attenuation @ Fo ± 6 MHz [dB] > 40

Attenuation @ Fo ± 12 MHz [dB] > 55

Broad-band Insertion Loss [dB] > 0.3

Return loss [dB] > 24

Insulation [dB] > 30

Input/Output Impedance [Ohm] 50

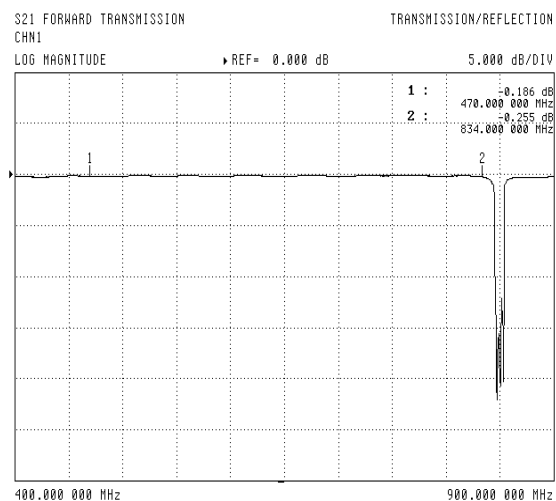
Minimum Distance Between Channels 1 guard channel

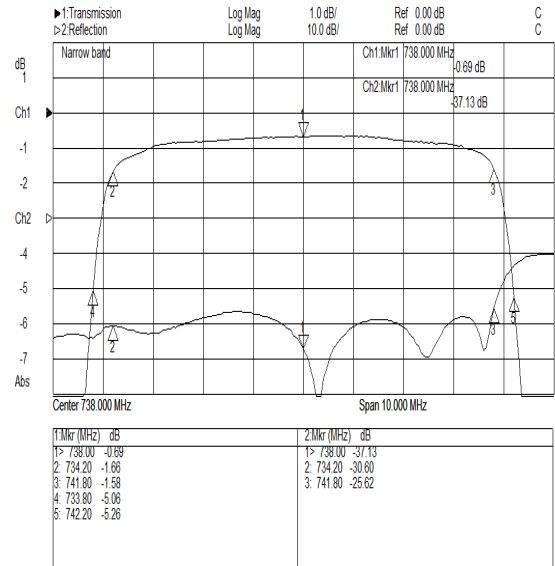
Narrow-band Maximum Power [W] 500 DTV

Maximum Output Power [W] 1500 DTV

Max. Group Delay Variation [ns] 300

Broad Band





Mechanical Characteristics

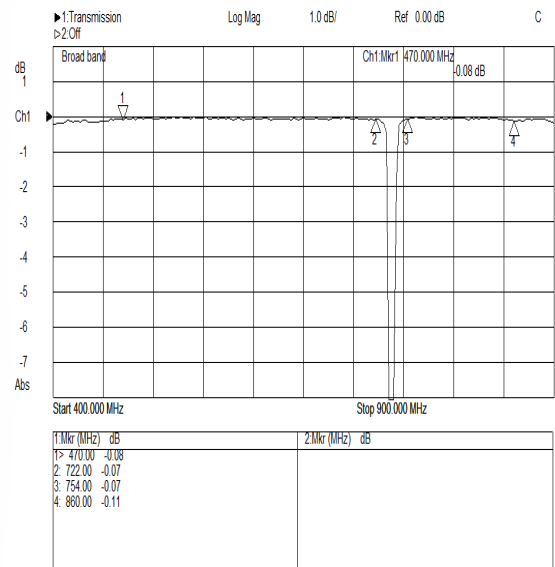
Connections

Input narrowband	DIN 7/16 or EIA 7/8"
Input broadband	DIN 7/16 or EIA 7/8"
output	EIA 7/8"

Overall dimensions [WxDxH] [mm.]	685x229x452
Maximum Operating Temperature [C°]	70
Weight [kg.]	35

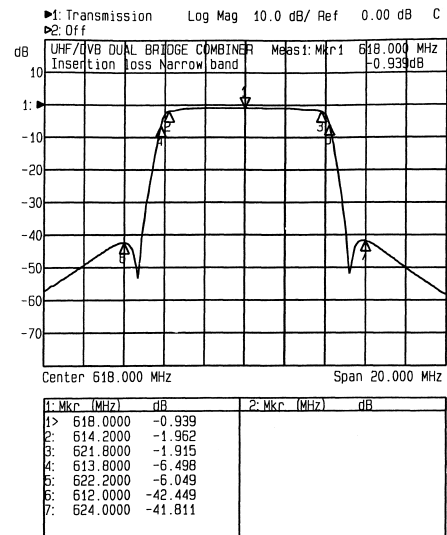
Electrical Characteristics

Frequency Range [MHz]	470 ÷ 862
Bandwidth [MHz]	6 ÷ 8
Insertion Loss [dB] @ Fo	< 0.75
Insertion Loss [dB] @ Fo ± 3.805 MHz	< 1.75
Attenuation @ Fo ± 4.2 MHz [dB]	> 5
Attenuation @ Fo ± 6 MHz [dB]	> 40
Attenuation @ Fo ± 12 MHz [dB]	> 50
Broad-band Insertion Loss [dB]	> 0.2
Return loss [dB]	> 26
Insulation [dB]	> 30
Input/Output Impedance [Ohm]	50
Minimum Distance Between Channels	1 guard channel
Narrow-band Maximum Power [W]	1000 DTV
Maximum Output Power [W]	1500 DTV
Max. Group Delay Variation [ns]	300



Band IV-V

2 inputs UHF/DVB Double Bridge Combiner - Critical Mask -



Mechanical Characteristics

Connections

Input narrowband	DIN 7/16 or EIA 7/8"
Input broadband	DIN 7/16 or EIA 7/8"
output	EIA 7/8"

Overall dimensions [WxDxH] [mm.] 840x210x500

Maximum Operating Temperature [C°] 70

Weight [kg.] 42

Electrical Characteristics

Frequency Range [MHz] 470 ÷ 862

Bandwidth [MHz] 6 ÷ 8

Insertion Loss [dB] @ Fo < 1.1

Insertion Loss [dB] @ Fo ± 3.805 MHz < 2.2

Attenuation @ Fo ± 4.2 MHz [dB] > 8

Attenuation @ Fo ± 6 MHz [dB] > 40

Attenuation @ Fo ± 12 MHz [dB] > 55

Broad-band Insertion Loss [dB] > 0.2

Return loss [dB] > 24

Insulation [dB] > 30

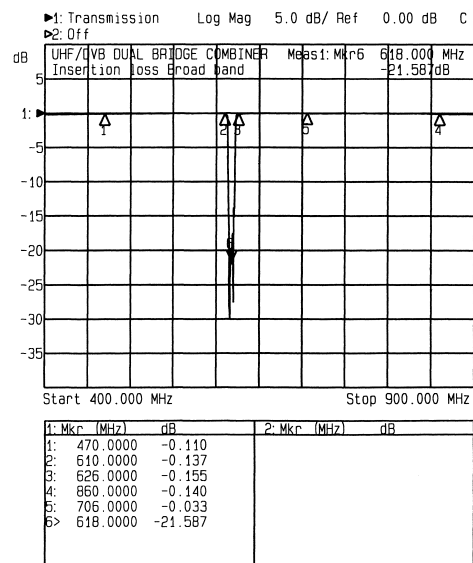
Input/Output Impedance [Ohm] 50

Minimum Distance Between Channels Adjacent channel

Narrow-band Maximum Power [W] 1000 DTV

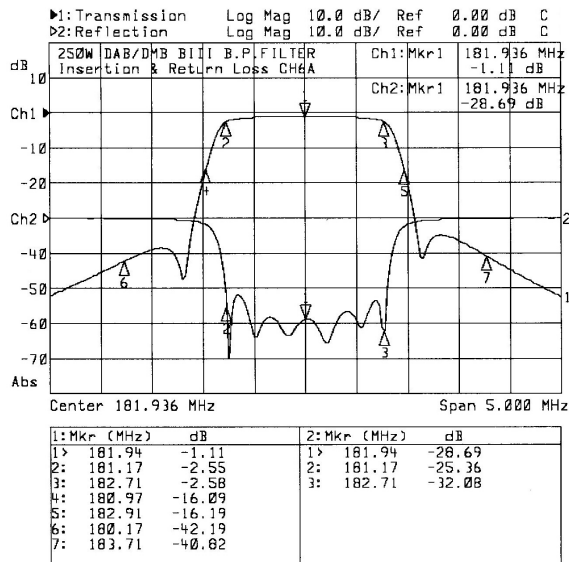
Maximum Output Power [W] 1500 DTV

Max. Group Delay Variation [ns] 300



Band III

250W DMB/DAB Filter 6 Cavities with cross coupling

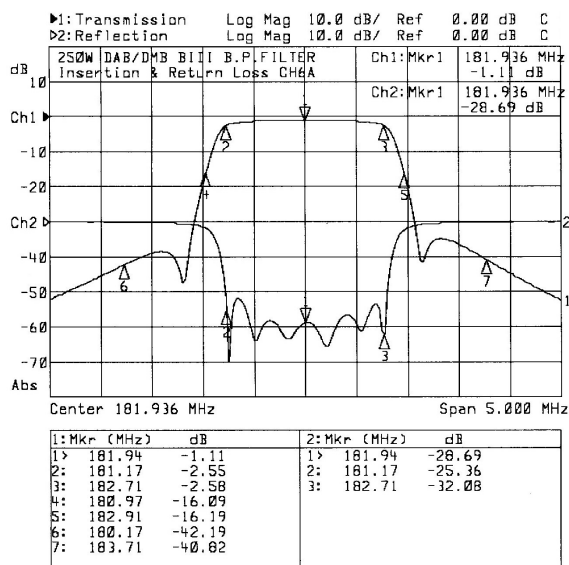


Mechanical Characteristics

Connections	DIN 7/16
Overall dimensions [WxDxH] [mm.]	217x295x610
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	19

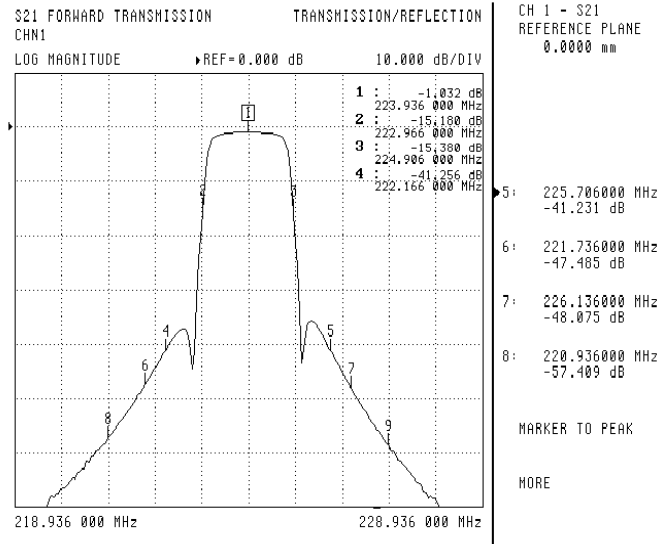
Electrical Characteristics

Frequency Range [MHz]	170 ÷ 240
Bandwidth [MHz]	1.54
Insertion Loss [dB] @ Fo	< 1.3
Insertion Loss [dB] @ Fo ± 0.77 MHz	< 2.9
Attenuation @ Fo ± 0.97 MHz [dB]	> 15
Attenuation @ Fo ± 1.77 MHz [dB]	> 40
Attenuation @ Fo ± 2.2 MHz [dB]	> 45
Attenuation @ Fo ± 3 MHz [dB]	> 55
Maximum amplitude variation [dB]	1.6
Maximum Input Power [W]	250
Return loss [dB]	> 22 (typical >24)
Input/Output Impedance [Ohm]	50
Max. Group Delay Variation [ns]	850



Band III

600W DMB/DAB Filter 6 Cavities with cross coupling

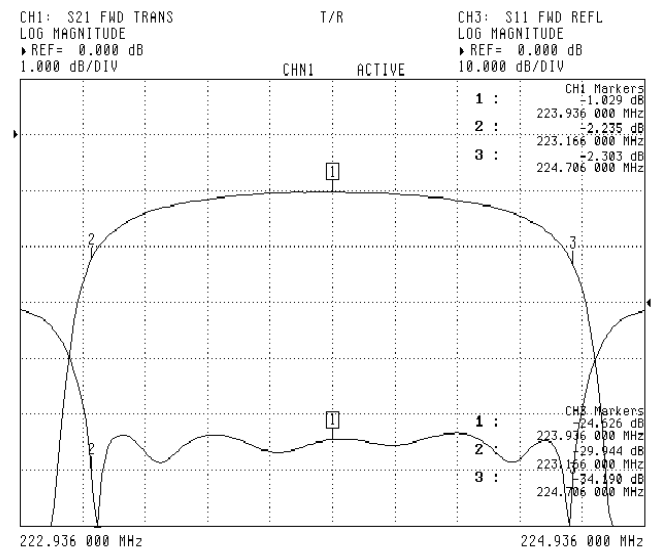


Mechanical Characteristics

Connections	DIN 7/16 or EIA 7/8"
Overall dimensions [WxDxH] [mm.]	262x380x630
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	23

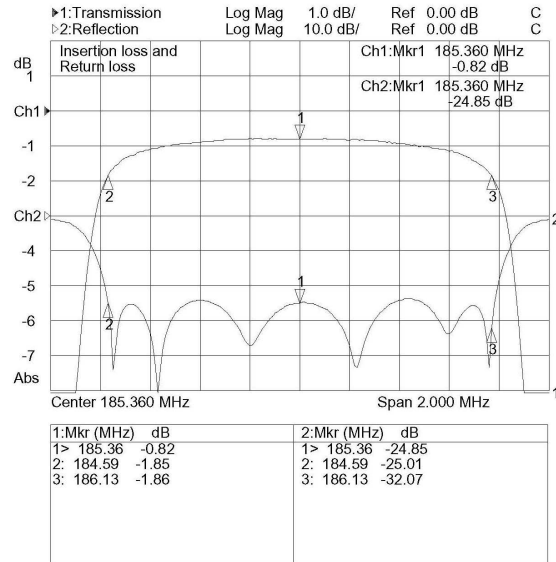
Electrical Characteristics

Frequency Range [MHz]	170 ÷ 240
Bandwidth [MHz]	1.54
Insertion Loss [dB] @ Fo	< 1.1
Insertion Loss [dB] @ Fo ± 0.77 MHz	< 2.4
Attenuation @ Fo ± 0.97 MHz [dB]	> 15
Attenuation @ Fo ± 1.77 MHz [dB]	> 40
Attenuation @ Fo ± 2.2 MHz [dB]	> 45
Attenuation @ Fo ± 3 MHz [dB]	> 55
Maximum amplitude variation [dB]	1.3
Maximum Input Power [W]	600
Return loss [dB]	> 22 (typical >24)
Input/Output Impedance [Ohm]	50
Max. Group Delay Variation [ns]	850



Band III

1.2kW DMB/DAB Filter 6 Cavities with cross coupling

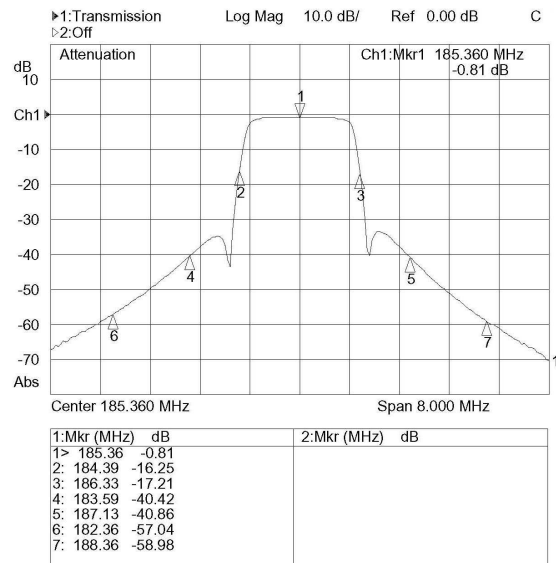


Mechanical Characteristics

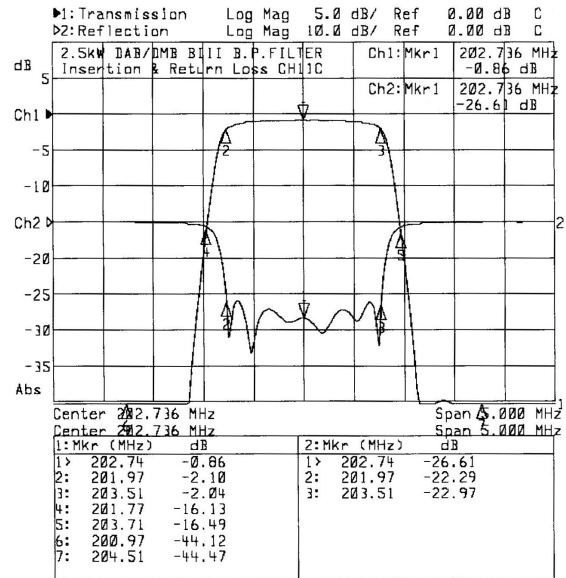
Connections	EIA 7/8"
Overall dimensions [WxDxH] [mm.]	302x450x620
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	31

Electrical Characteristics

Frequency Range [MHz]	170 ÷ 240
Bandwidth [MHz]	1.54
Insertion Loss [dB] @ Fo	< 1 (typical <0.9)
Insertion Loss [dB] @ Fo ± 0.77 MHz	< 2.3 (typical <2.1)
Attenuation @ Fo ± 0.97 MHz [dB]	> 16
Attenuation @ Fo ± 1.77 MHz [dB]	> 40
Attenuation @ Fo ± 2.2 MHz [dB]	> 45
Attenuation @ Fo ± 3 MHz [dB]	> 55
Maximum amplitude variation [dB]	1.2
Maximum Input Power [W]	1200
Return loss [dB]	> 22 (typical >24)
Input/Output Impedance [Ohm]	50
Max. Group Delay Variation [ns]	900



Band III 2.5kW DMB/DAB Filter 6 Cavities with cross coupling



Mechanical Characteristics

Connections	EIA 1 5/8" male
Overall dimensions [WxDxH] [mm.]	444x690x640
Temperature range [C°]	-10 ÷ 50
Weight [kg.]	55

Electrical Characteristics

Frequency Range [MHz]	170 ÷ 240
Bandwidth [MHz]	1.54
Insertion Loss [dB] @ Fo	< 0.9
Insertion Loss [dB] @ Fo ± 0.77 MHz	< 2.1
Attenuation @ Fo ± 0.97 MHz [dB]	> 16
Attenuation @ Fo ± 1.77 MHz [dB]	> 40
Attenuation @ Fo ± 2.2 MHz [dB]	> 45
Attenuation @ Fo ± 3 MHz [dB]	> 55
Maximum amplitude variation [dB]	1.2
Maximum Input Power [W]	2500
Return loss [dB]	> 22 (typical >24)
Input/Output Impedance [Ohm]	50
Max. Group Delay Variation [ns]	950

