

# UHF Bandpass filter

## 2.5 kW rms, 6 Pole

BAND IV-V

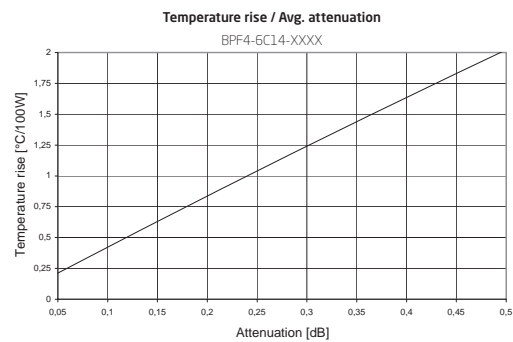
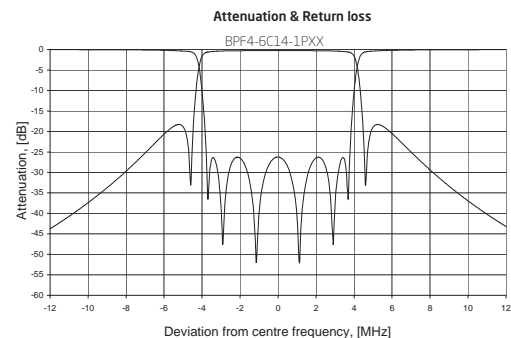
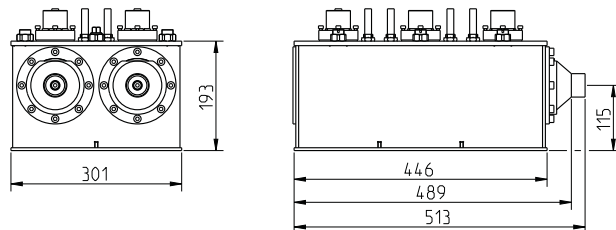
10  
year  
GUARANTEE

### PRODUCT FEATURES

- Small size
- Retunable
- Compact design
- Low insertion loss
- Temperature compensated
- Available with cross-coupling
- 10-year comprehensive warranty



SPECIFICATIONS	140 mm Series
FREQUENCY	470 - 862 MHz
BANDWIDTH	6 - 8 MHz
STANDARD ORDER	6 Poles single cross coupling
OPTIONAL ORDER	6 Poles with or without double cross coupling
ATV	Spurious suppress
DVB	Non critical mask
ATSC	Stringent mask
ISDB	Non critical mask
IMPEDANCE	50 Ohm
VSWR	>26 dB (<1.11)
TEMPERATURE STABILITY	< 2 kHz / °C
MAX PRODUCT TEMPERATURE	70 °C
ENVIRONMENTAL CONDITION	-5 to 70 °C IP40
STANDARD CONNECTION	1 5/8" unflange
OPTIONAL CONNECTIONS	7/16 m/f, 3 1/8" unflange
DIMENSIONS AND WEIGHT	
DIMENSIONS	513 x 301 x 245-315 mm (20.2 x 11.9 x 9.6-12.4 in)
WEIGHT	25 kg (55.1 lb)
STANDARD FRAME	Stand alone
OPTIONAL FRAME	19" subrack
COLOUR	Frosted black



### ARTICLE: BPF4-6C14-1P11

- BPF** = Filter type
- 4** = Frequency band
- 6** = Number of poles
- C** = Cavity based
- 14** = Cavity size
- 1** = Number of cross coupling
- P** = Coating
- 1** = Input connection
- 1** = Output connection

TYPICAL DATA*	8 MHz DVB-T/2	6 MHz ISDB-T	6 MHz ATSC
ARTICLE NO	BPF4-6C14-1P11	BPF4-6C14-1P11	BPF4-6C14-1P11
<b>INSERTION LOSS</b>			
Avg. signal bandwidth	<0.39 dB	<0.49 dB	<0.47 dB
Centre frequency	<0.30 dB	<0.42 dB	<0.43 dB
Signal band edge	± 3.88 MHz <1.15 dB (3,8 MHz 0,89 dB)	± 2.79 MHz <0.75 dB	± 2.69 MHz <0.60 dB
	± 4.2 MHz >5 dB	± 3.15 MHz >1.30 dB	± 3.5 MHz >1.50 dB
	± 6.0 MHz >16 dB	± 4.5 MHz >17 dB	± 6.0 MHz >29 dB
	± 12.0 MHz >41 dB	± 9.0 MHz >47 dB	± 9.0 MHz >63 dB
<b>GROUP DELAY</b>	<315 ns	<150 ns	<75 ns
<b>MAX INPUT POWER RATING**</b>	2.5 kW / 13 dB (crest factor)	2.0 kW / 13 dB (crest factor)	2.1 kW / 11 dB (crest factor)
<b>TEMPERATURE RISE</b>	<1.6 °C / 100 W	<2.0 °C / 100 W	<1.9 °C / 100 W
<b>MASK COMPLIANT</b>	Non critical mask	Non critical mask	Stringent mask

\* Data in table is typical data at 666 MHz. To fulfil mask transmitter shoulder level must be >36 dB. The filter can be tuned for other specifications or bandwidth. Please contact us for a designed specification.

\*\* Max input power at <50 °C temprice at max frequency