UHF Balanced Bandpass filter Convection / liquid cooled

20 / 30 kW rms, 6 Pole, Standard

PRODUCT FEATURES

- Convection & Liquid cooled versions
- Retunable
- Compacte design
- Low insertion loss
- Temperature compensated

SPECIFICATIONS	270 mm Series					
	Convection cooled	Liquid cooled				
FREQUENCY	470 - 700 MHz					
BANDWIDTH	6 - 8 MHz					
STANDARD ORDER	6 Poles with single cross coupling					
OPTIONAL ORDER	6 Poles with double cross coupling or without					
ATV	Spurious supress					
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					
ENVIROMENTAL CONDITION	-5 to 70 °C IP40					
STANDARD CONNECTION	3 1/8" unflange					
OPTIONAL CONNECTIONS	4 1/2" unflange, NAX120 unflange					
COOLING LIQUID CONNECTION	- Ø10 mm (other upon request)					
LIQUID FLOW	-	10 l/min (2.5 gal liq./min)				
		Cooling capacity >900W				
COOLING LIQUID TEMPERATURE	-	- <=50°C (<=122°F)				





DIMENSIONS AND WEIGHT

887 x 582 x 1400 mm			
(34.9 x 22.9 x 55.1 in)			
130 kg (286 lb)			
Stand alone			
Custom frame			
Frosted black			



ARTICLE: BBPF46C27C-1P33



vithout, 1 = single, 2 = double

Ρ = Coating and cooling

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582

V = blackpainted, liquid cooled

P = blackpainted, convection cooled = Input connection 3

3= 3 1/8" unflange, 4 = 4 1/2" unflange

2 = NAX120 unflange

 2 = NAK 120 unitarity

 3 = Output connection

 3 1/8" unflange, 4 = 4 1/2" unflange,

 2 = NAX120 unflange

TYPICAL DATA*	8 MHz DVB-T2		6 MHz ISDB-T		6 MHz ATSC				
ARTICLE NO	BBPF46C27C-1Pxx		BBPF46C27C-1Pxx		BBPF46C27C-1Pxx				
INSERTION LOSS		470 MHz	700 MHz		470 MHz	700 MHz		470 MHz	700 MHz
Avg. signal bandwidth		<0.28 dB	<0.34 dB		<0.34 dB	<0.41 dB		<0.32 dB	<0.39 dB
Centre frequency		<0.23 dB	<0.28 dB		<0.30 dB	<0.36 dB		<0.31 dB	<0.37 dB
Signal band edge	± 3.88 MHz	<0.56 dB	<0.66 dB	± 2.79 MHz	<0.23 dB	<0.28 dB	± 2.69 MHz	<0.16 dB	<0.19 dB
Rejection Δ -f0	± 4.2 MHz	>4 dB typical >4.6 dB	>4 dB typical >4.8 dB	± 3.15 MHz	- typical >0.5 dB	- typical >0.6 dB	± 3.5 MHz	- typical >1.0 dB	- typical >1.0 dB
Rejection Δ -f0	± 6.0 MHz	>16 dB typical >20 dB	<16 dB typical >20 dB	± 4.5 MHz	>17 dB typical >30 dB	>17 dB typical >30 dB	± 6.0 MHz	> 29 dB typical >39 dB	> 29 dB typical >39 dB
Rejection Δ -f0	± 12.0 MHz	>41 dB typical >42 dB	<41 dB typical >42 dB	± 9.0 MHz	>47 dB typical >50 dB	>47 dB typical >50 dB	± 9.0 MHz	>63 dB typical >67 dB	>63 dB typical >67 dB
GROUP DELAY	<320 ns			<140 ns		<80 ns			
MAX INPUT POWER RATING, LIQUID COOLING**		30 kW	30 kW		30 kW	30 kW		30 kW	30 kW
	@ 13 dB (crest factor)				@ 13 dB (crest factor)		@ 11 dB (crest factor)		
MAX INPUT POWER RATING,		25.5 kW	20.0 kW		20.2 kW	15.8 kW		21.0 kW	16.5 kW
CONVECTION COOLING***	@ 13 dB (crest factor)				@ 13 dB (crest factor)		11 dB (crest factor)		
TEMERATURE RISE		<2 °C/ kW	<2.5 °C/ kW		<2.5 °C/ kW	<3.2 °C/ kW		<2.4 °C/ kW	<3.0 °C/ kW
MASK COMPLIANT	Non critical mask			Non critical mask		Stringent mask			

* Data in table is typical/indicative data. To fulfil mask, transmitter shoulder level must be >36.2 dB. The filter can be tuned for other specifications or bandwidth. Please contact us for a designed specification *** Max input power with above cooling liquid flow and temperature. Change in the liquid flow and temperature can also change the actual power rating. **** Max input power at <50 °C temp. rise and <20 °C ambient temperature. The unit must be positioned so that there are no obstructions to free air flow. Data are subjected to change without prior notice.

