UHF Balanced Bandpass filter Convection / liquid cooled

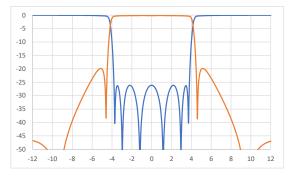
25.4 / 40 kW rms, 6 Pole, High Power, Low Loss

PRODUCT FEATURES

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

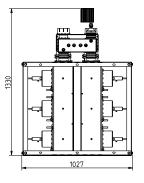
SPECIFICATIONS	270 mm Series				
	Convection cooled	Liquid cooled			
FREQUENCY	470 - 700 MHz				
BANDWIDTH	6 - 8 MHz				
STANDARD ORDER	6 Poles with double cross coupling				
OPTIONAL ORDER	6 Poles with single cross coupling or without				
ATV	Spurious supress				
DVB	Non critical mask				
ATSC	Stringent 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)			



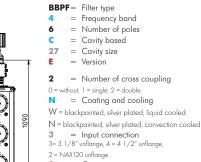


DIMENSIONS AND WEIGHT

DIMENSIONS	1027 x 582 x 1330 mm		
L x W x H	(40.4 x 22.9 x 52.4 in)		
WEIGHT	130 kg (286 lb)		
STANDARD FRAME	Stand alone		
OPTIONAL FRAME	Custom frame		
COLOUR	Frosted black		



ARTICLE: BBPF46C27E-2N33



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	BBPF46C27E-2Nxx		BBPF46C27E-2Nxx		BBPF46C27E-2Nxx				
INSERTION LOSS		470 MHz	700 MHz		470 MHz	700 MHz		470 MHz	700 MHz
Avg. signal bandwidth		<0.25 dB	<0.28 dB		<0.26 dB	<0.29 dB		<0.28 dB	<0.32 dB
Centre frequency		<0.20 dB	<0.23 dB		<0.23 dB	<0.26 dB		<0.26 dB	<0.30 dB
Signal band edge	± 3.88 MHz	<0.50 dB	<0.57 dB	± 2.79 MHz	<0.20 dB	<0.22 dB	± 2.69 MHz	<0.15 dB	<0.17 dB
Rejection ∆-f0	\pm 4.2 MHz	>4 dB typical >4.6 dB	>4 dB typical >4.8 dB	± 3.15 MHz	- typical >0.3 dB	- typical >0.3 dB	± 3.5 MHz	- typical >0.7 dB	- typical >0.8 dB
Rejection Δ -f0	\pm 6.0 MHz	>16 dB typical >22 dB	<16 dB typical >22 dB	± 4.5 MHz	>17 dB typical >21 dB	>17 dB typical>21 dB	± 6.0 MHz	>29 dB typical >45 dB	>29 dB typical >45 dB
Rejection Δ -f0	\pm 12.0 MHz	>41 dB typical >45 dB	<41 dB typical >45 dB	± 9.0 MHz	>47 dB typical >52 dB	>47 dB typical >52 dB	± 9.0 MHz	>63 dB typical >69 dB	>63 dB typical >69 dB
GROUP DELAY	<350 ns		<130 ns			<80 ns			
MAX INPUT POWER RATING, LIQUID COOLING**		40 kW	40 kW		40 kW	40 kW		40 kW	40 kW
	@ 13 dB (crest factor)			@ 13 dB (crest factor)			@ 11 dB (crest factor)		
MAX INPUT POWER RATING, CONVECTION COOLING***		30.8 kW	25.4 kW		29.4 kW	24.2 kW		26.2 kW	21.6 kW
	@ 13 dB (crest factor)			@ 13 dB (crest factor)			11 dB (crest factor)		
TEMERATURE RISE		<1.6 °C/ kW	<2.0 °C/ kW		<1.7 °C/ kW	<2.1 °C/ kW		<1.9 °C/ kW	<2.3 °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.

