UHF Bandpass filter, convection / liquid cooled

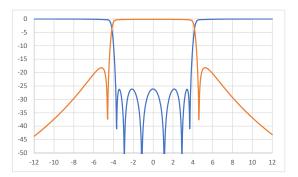
10 / 15 kW rms, 6 Pole, Standard

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)			

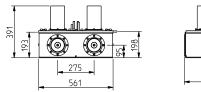




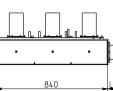
ARTICLE: BPF46C27C-1P33

Filter type
Frequency band
Number of poles
Cavity based
Cavity size
Version
Number of cross coupling
it, 1 = single, 2 = double
Coating and cooling
painted, liquid cooled
painted, convection cooled
Input connection
″ unflange, 4 = 4 1/2″ unflange,
20 unflange
Output connection flange, 4 = 4 1/2" unflange, 20 unflange

DIMENSIONS	903 x 561 x 391 mm			
L x W x H	(35.6 x 22.1 x 15.4 in)			
WEIGHT	46 kg (101 lb)			
STANDARD FRAME	Stand alone			
OPTIONAL FRAME	Custom frame			
COLOUR	Frosted black			



DIMENSIONS AND WEIGHT



TYPICAL DATA*	8 MHz DVB-T2		6 MHz ISDB-T		6 MHz ATSC				
ARTICLE NO	BPF46C27C-1Pxx		BPF46C27C-1Pxx		BPF46C27C-1Pxx				
INSERTION LOSS		470 MHz	700 MHz		470 MHz	700 MHz		470 MHz	700 MHz
Avg. signal bandwidth		<0.20 dB	<0.26 dB		<0.26 dB	<0.33 dB		<0.24 dB	<0.31 dB
Centre frequency		<0.15 dB	<0.20 dB		<0.22 dB	<0.28 dB		<0.23 dB	<0.29 dB
Signal band edge	± 3.88 MHz	<0.48 dB	<0.58 dB	± 2.79 MHz	<0.15 dB	<0.20 dB	± 2.69 MHz	<0.08 dB	<0.11 dB
Rejection Δ -f0	\pm 4.2 MHz	>4 dB typical >4.5 dB	>4 dB typical >4.7 dB	± 3.15 MHz	- typical >0.5 dB	- typical >0.5 dB	± 3.5 MHz	- typical >1.0 dB	- typical >1.0 dB
Rejection Δ -f0	\pm 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	\pm 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**		15 kW	15 kW		15 kW	15 kW		15 kW	15 kW
	@ 13 dB (crest factor)			@ 13 dB (crest factor)			@ 11 dB (crest factor)		
MAX INPUT POWER RATING, CONVECTION COOLING***		12.7 kW	10.0 kW		10 kW	7.9 kW		10.5 kW	8.2 kW
	@ 13 dB (crest factor)			@ 13 dB (crest factor)		11 dB (crest factor)			
TEMERATURE RISE		<4 °C/ kW	<5 °C/ kW		<5 °C/ kW	<6.3 °C/ kW		<4.8 °C/ kW	<6.1 °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.