UHF Balanced Bandpass filter Convection / liquid cooled

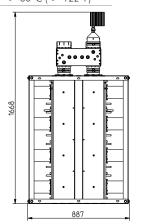
17.4 / 30 kW rms, 8 Pole, Standard

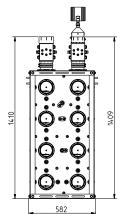
PRODUCT FEATURES

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

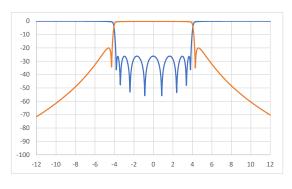
SPECIFICATIONS	270 mm Series				
	Convection cooled	Liquid cooled			
FREQUENCY	470 - 700 MHz				
BANDWIDTH	6 - 8 MHz				
STANDARD ORDER	8 Poles with single cross coupling				
OPTIONAL ORDER	8 Poles with double cross coupling or without				
ATV	Spurious supress				
DVB	Critical mask				
ATSC	Stringent mask				
ISDB	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	887 x 582 x 1668 mm					
LxWxH	(34.9 x 22.9 x 65.7 in)					
WEIGHT	160 kg (353 lb)					
STANDARD FRAME	Stand alone					
OPTIONAL FRAME	Custom frame					
COLOUR	Frosted black					









ARTICLE: BBPF48C27C-1P33

BAND IV-V

BBPF = Filter type 4 = Frequency band

8 = Number of poles
C = Cavity based

27 = Cavity sizeC = Version

= Number of cross coupling

0 = without, 1 = single, 2 = double

P = Coating and cooling

V = blackpainted, liquid cooled

P = blackpainted, convection cooled

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

2 = NAX120 unflange

3 = Output connection 3 1/8" unflange, 4 = 4 1/2" unflange, 2 = NAX 120 unflange

TYPICAL DATA*	8 MHz DVB-T2		6 MHz ISDB-T		6 MHz ATSC				
ARTICLE NO	BBPF48C27C-1Pxx		BBPF48C27C-1Pxx		BBPF48C27C-1Pxx				
INSERTION LOSS		470 MHz	700 MHz		470 MHz	700 MHz		470 MHz	700 MHz
Avg. signal bandwidth		<0.39 dB	<0.48 dB		<0.48 dB	<0.59 dB		< 0.38 dB	<0.47 dB
Centre frequency		<0.32 dB	<0.38 dB		<0.40 dB	<0.48 dB		< 0.36 dB	<0.43 dB
Signal band edge	± 3.88 MHz	< 0.83 dB	<1.03 dB	± 2.79 MHz	<0.67 dB	<0.84 dB	± 2.69 MHz	<0.21 dB	<0.24 dB
Rejection Δ-f0	± 4.2 MHz	>14 dB typical >15.6 dB	>14 dB typical > 15.8 dB	± 3.15 MHz	>15 dB typical >20 dB	>15 dB typical >20 dB	± 3.5 MHz	- typical >0.6 dB	typical >0.7 dB
Rejection Δ-f0	± 6.0 MHz	>26 dB typical >31 dB	<26 dB typical >31 dB	± 4.5 MHz	>31 dB typical >32 dB	>31 dB typical >32 dB	± 6.0 MHz	>29 dB typical >42 dB	>29 dB typical >42 dB
Rejection Δ-f0	± 12.0 MHz	>51 dB typical >69 dB	<51 dB typical >69 dB	± 9.0 MHz	>61 dB typical >70 dB	>61 dB typical >70 dB	± 9.0 MHz	>63 dB typical >64 dB	>63 dB typical >64 dB
GROUP DELAY	<600 ns		<510 ns			<110 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, CONVECTION COOLING***		22.1 kW	17.4 kW		17.3 kW	13.7 kW		22.5 kW	17.7 kW
	@ 13 dB (crest factor)			@ 13 dB (crest factor)			11 dB (crest factor)		
TEMERATURE RISE		<2.3 °C/ kW	<2.9 °C/ kW		<2.9 °C/ kW	<3.7 °C/ kW		<2.2 °C/ kW	<2.8 °C/ kW
MASK COMPLIANT		Critico	al mask		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.