UHF Balanced Bandpass filter
Convection / liquid cooled

22.5 / 40 kW rms, 8 Pole, High Power, Low Loss

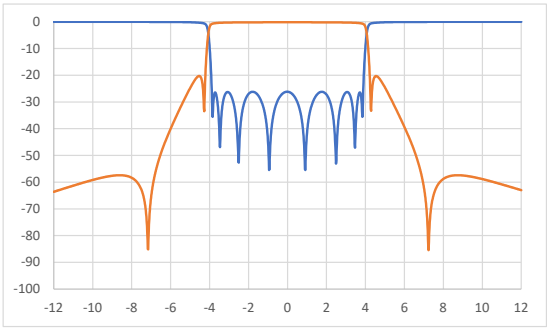
BAND IV-V

10 year GUARANTEE

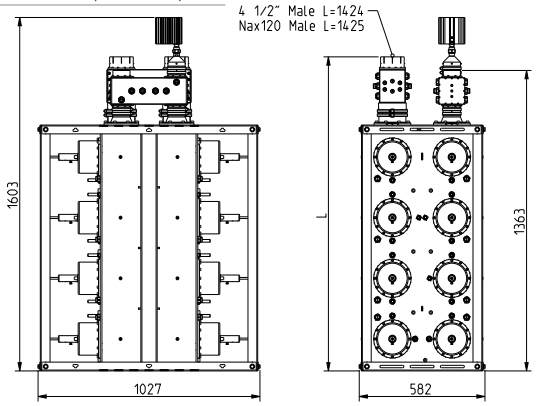
PRODUCT FEATURES

- 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 double cross coupling	
OPTIONAL ORDER	8 Poles with single 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 L x W x H	1027 x 582 x 1603 mm (40.4 x 22.9 x 63.1 in)
WEIGHT	160 kg (353 lb)
STANDARD FRAME	Stand alone
OPTIONAL FRAME	Custom frame
COLOUR	Frosted black



ARTICLE: BBPF48C27E-2N33

BBPF = Filter type
4 = Frequency band
8 = Number of poles
C = Cavity based
27 = Cavity size
E = Version
2 = Number of cross coupling
0 = without, 1 = single, 2 = double
N = Coating and cooling
W = blackpainted, silver plated, liquid cooled
N = blackpainted, silver plated, 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 = NAX120 unflange

TYPICAL DATA*	8 MHz DVB-T2			6 MHz ISDB-T			6 MHz ATSC		
ARTICLE NO	BBPF48C27E-2Nxx			BBPF48C27E-2Nxx			BBPF48C27E-2Nxx		
INSERTION LOSS		470 MHz	700 MHz		470 MHz	700 MHz		470 MHz	700 MHz
Avg. signal bandwidth		<0.33 dB	<0.39 dB		<0.39 dB	<0.46 dB		<0.31 dB	<0.36 dB
Centre frequency		<0.26 dB	<0.32 dB		<0.32 dB	<0.37 dB		<0.29 dB	<0.33 dB
Signal band edge	± 3.88 MHz	<0.69 dB	<0.83 dB	± 2.79 MHz	<0.53 dB	<0.62 dB	± 2.69 MHz	<0.19 dB	<0.21 dB
Rejection Δ-f0	± 4.2 MHz	>14 dB *typical > 16.7 dB*	>14 dB *typical > 16.8 dB*	± 3.15 MHz	>15 dB *typical > 16.6 dB*	>15 dB *typical > 16.7 dB*	± 3.5 MHz	- *typical >0.7 dB*	- *typical >0.8 dB*
Rejection Δ-f0	± 6.0 MHz	>26 dB *typical >39 dB*	<26 dB *typical >39 dB*	± 4.5 MHz	>31 dB *typical >38 dB*	>31 dB *typical >38 dB*	± 6.0 MHz	>29 dB *typical >43 dB*	>29 dB *typical >43 dB*
Rejection Δ-f0	± 12.0 MHz	>51 dB *typical >62 dB*	<51 dB *typical >62 dB*	± 9.0 MHz	>61 dB *typical >63 dB*	>61 dB *typical >63 dB*	± 9.0 MHz	>63 dB *typical >70 dB*	>63 dB *typical >70 dB*
GROUP DELAY	<610 ns			<450 ns			<110 ns		
MAX INPUT POWER RATING, LIQUID COOLING**	40 kW @ 13 dB (crest factor)		40 kW	40 kW @ 13 dB (crest factor)		40 kW	40 kW @ 11 dB (crest factor)		40 kW
MAX INPUT POWER RATING, CONVECTION COOLING***	27.1 kW @ 13 dB (crest factor)		22.5 kW	22.0 kW @ 13 dB (crest factor)		18.3 kW	29.3 kW 11 dB (crest factor)		24.2 kW
TEMERATURE RISE	<1.8 °C/ kW		<2.2 °C/ kW	<2.3 °C/ kW		<2.7 °C/ kW	<1.7 °C/ kW		<2.1 °C/ kW
MASK COMPLIANT	Critical 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.