Radioddity LPFX7

User Manual

Radioddity LPFX7 Low Pass Filter is mainly used to suppress transmitter harmonics during transmission and reception.

Introduction

1. When using with the PAX100, 100% suppression effect can be achieved.
2. When using with other radios or devices, 80-95% suppression effect can be achieved.
3. Working Voltage: 13.8V | Working Current: 0.1-0.5A
4. Maximum Input Power: 100W for CW, 200W for SSB. If the maximum range is exceeded, there will be an overload, which may damage the filter.
5. Frequency Range Support: 10M、15M、20M、40M、80M
6. Harmonic suppression:
   10M & 15M, 20M, and 40M>30db
   80M>51db

Operation Guide

1. Connect the G90 to the PAX100 then to the LPFX7 and finally to an antenna.

2. Prepare the DC power supply: set the DC voltage to 13.8V output and the maximum current to 20A.
   Note: The power cord of LPFX7 can be directly connected to the power cord of G90. Pay attention to the positive and negative poles.

3. Power on in the following order
   Turn on the DC power supply then turn on G90 (the PAX100 will automatically power up) then turn on LPFX7

4. Power and frequency setting
   ① Set the output power of G90 from 2 to 10 watts
   ② Set the G90 to the desired frequency
   ③ Select the working band of LPFX7 according to the G90 frequency.
   Note: It will damage the LPFX7 if the transmitting frequency/band of the radio and the
**selected band on the LPFX7 are different.**

LPFX7 frequency band setting reference:
For frequency of 10-15M, press 10-15M button, indicator LED will light up
For frequency of 20M, press 20M button, indicator LED will light up
For frequency of 40M, press 40M button, indicator LED will light up
For frequency of 80M, press 80M button, indicator LED will light up

④ When finished with the above settings, press the G90 PTT button to transmit, the PAX100 will and LPFX7 will automatically work.

⑤ When done using LPFX7, press the power button to turn it off before disconnecting.

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**Included Items**

<table>
<thead>
<tr>
<th>Power Cable (A)</th>
<th>Input &amp; Output Cable (B)</th>
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<tr>
<td><img src="image1.png" alt="Power Cable" /></td>
<td><img src="image2.png" alt="Input &amp; Output Cable" /></td>
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Connection Guide

1. Use Input cable (B) to connect PAX100 Output and LPFX7 Input
2. Use output cable (B) to connect LPFX7 Output to the Antenna
3. Connect Power Cable (A) with a DC 13.8V 1A power supply (or with G90’s power supply)
Specifications

Frequency Range: 10M, 15M, 20M, 40M, 80M
Input Power: 100W CW, 200W SSB
Filter Structure: Elliptic filter
Filter Order: 7th order
Harmonic suppression: >30dB
Input & Output Connectors: SMA-K
Power supply voltage: 12V-16V
Working current: 100ma
Size: L150mm, W50mm, H20mm
Weight: 190G
Working temperature: -15°C ~ 55°C
Storage temperature: -30°C ~ 75°C