



POWER LINE FILTER

FOR TFM SERIES TRANSCEIVERS

MODEL PLF-250



Installation and Operating Instructions

TiL Document No. 02RE302
Rev. n/c Issue 2

SEPTEMBER 2002

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REVISION HISTORY [02RE302]				
REV	SECTION - PAGE -	DESCRIPTION	DATE	Edited by
n/c	Global	Original Document	MAR 2012	FM
Issue 1				
Issue 2		New Document Template (new file format) Title page changed, Headers/Footers added Added Revision & warranty page		

WARNING:

Changes or modifications not expressly approved by Technisonic Industries could void the user's authority to operate the equipment.

WARRANTY INFORMATION

The Model PLF-250 Power Line Filter is under warranty for one year from date of purchase. Failed units caused by defective parts, or workmanship should be returned to:

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TABLE OF CONTENTS

SECTION	TITLE	PAGE
SECTION 1 GENERAL DESCRIPTION		
1.1	DESCRIPTION	1-1
1.2	TECHNICAL CHARACTERISTICS	1-1
SECTION 2 INSTALLATION INSTRUCTIONS		
2.1	GENERAL	2-1
2.2	EQUIPMENT PACKING LOG	2-1
2.3	INSTALLATION	2-1
2.4	CONNECTIONS	2-2
2.5	TESTING	2-2
	Warranty	

LIST OF FIGURES

FIGURE	TITLE	PAGE
2.1	Outline drawing of the PLF-250	2-1
2.2	Connection diagram for the PLF-250	2-2

SECTION 1 - GENERAL DESCRIPTION

1.1 DESCRIPTION

The PLF-250 power line filter is designed to attenuate ripple on the 28 VDC supply to a Technisonic TFM series or TDFM-136 series transceiver.

The box has an input and output 15 pin 'D' connector and is supplied with a 15 pin extension cable allowing it to be added to an existing installation easily. All 15 lines are lightly filtered while the 28VDC lines are heavily filtered.

1.2 TECHNICAL CHARACTERISTICS

<u>Specification</u>	<u>Characteristics</u>
Model Designation:	PLF-250
Maximum Voltage:	35 Volts DC
Maximum Current:	5 Amps operational 10 Amps fused
Physical Dimensions:	5.2" X 3.9" X 1.25"
Weight:	9.39 oz (263 g)
Operating Temperature Range:	45°C to +70°C

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SECTION 2 – INSTALLATION INSTRUCTIONS

2.1 GENERAL

This section contains information and instructions for the correct installation of the PLF-250 power line filter.

2.2 EQUIPMENT PACKING LOG

Unpack the equipment and check for any damage that may have occurred during transit. Save the original shipping container for returns due to damage or warranty claims. Check that each item on the packing slip has been shipped in the container.

2.3 INSTALLATION

The PLF-250 Power Line Filter has two flanges with two holes each for mounting. See Figure 1 for an outline drawing of the unit with dimensions to facilitate the installation. The unit should be mounted as near to the transceiver as possible.

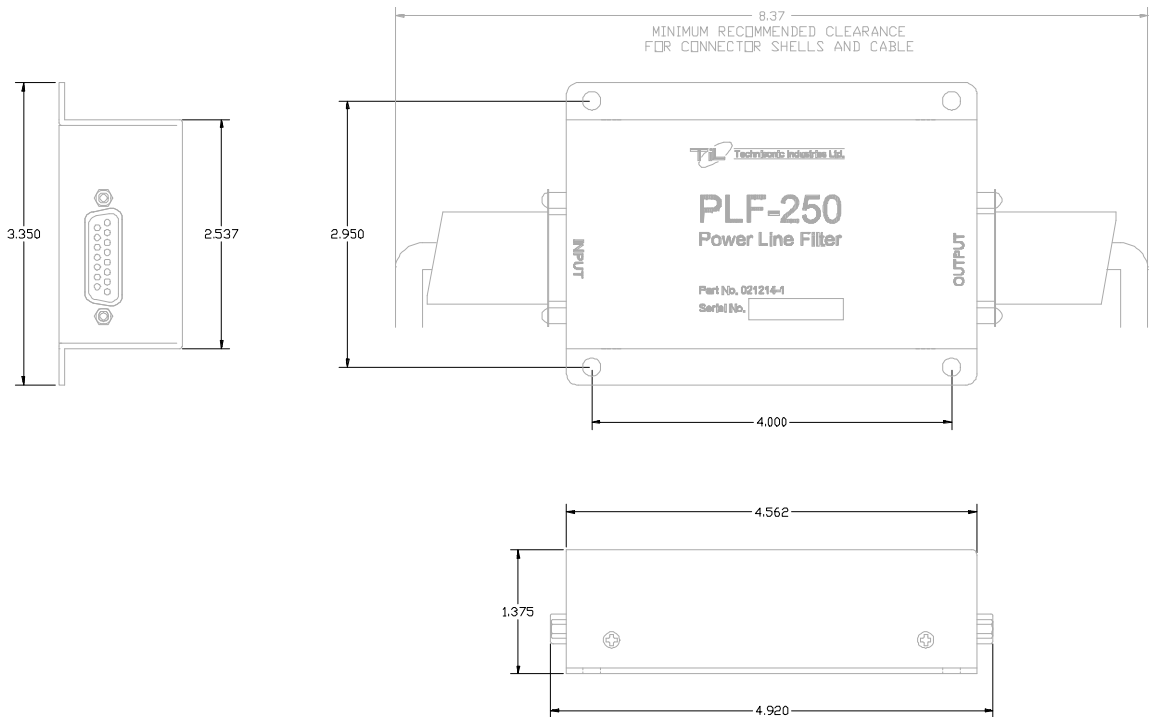


Figure 1 Outline drawing of the PLF-250

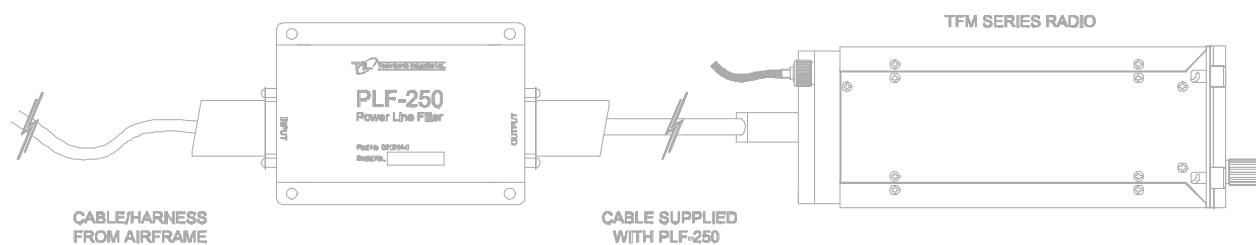


Figure 2 Connection diagram for the PLF-250

2.4 CONNECTIONS

Plug the connector from the airframe into the input of the PLF-250 and use the supplied 15 pin cable to connect the output to the transceiver. The supplied cable is 24" long but can be made shorter or looped if desired. Refer to the transceiver's installation diagram for information.

2.5 TESTING

If this is a existing transceiver installation where the filter was added to solve a noise problem, check all functions including transmit and receive and the slave control, if installed, to confirm. If this is a new transceiver installation, follow the test procedure outlined in the transceiver's installation instructions.

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**IMPORTANT
WARRANTY**

All communication equipment manufactured by Technisonic Industries Limited is warranted to be free of defects in Material or Workmanship under normal use for a period of one year from Date of Purchase by the end user.

Warranty will only apply to equipment installed by a factory approved and/or authorized facility in accordance with Technisonic published installation instructions. Equipment falling under the following is not covered by warranty:

- equipment that has been repaired or altered in any way as to affect performance,
- equipment that has been subject to improper installation,
- equipment that has been used for purposes other than intended,
- equipment that has been involved in any accident, fire, flood, immersion or subject to any other abuse.

Expressly excluded from this warranty are changes or charges relating to the removal and re-installation of equipment from the aircraft. Technisonic will repair or replace (at Technisonic's discretion) any defective transceiver (or part thereof) found to be faulty during the Warranty Period.

Faulty equipment must be returned to Technisonic (or its authorized Warranty Depot) with transportation charges prepaid. Repaired (or replacement) equipment will be returned to the customer with collect freight charges. If the failure of a transceiver occurs within the first 30 days of service, Technisonic will return the repaired or replacement equipment prepaid.

Technisonic reserves the right to make changes in design, or additions to, or improvements in its products without obligation to install such additions and improvements in equipment previously manufactured. This Warranty is in lieu of any and all other warranties express or implied, including any warranty of merchantability or fitness, and of all other obligations or liabilities on the part of Technisonic.

This Warranty shall not be transferable or assignable to any other persons, firms or corporations.

**For warranty registration please complete the on-line
Warranty Registration Form found at www.til.ca.**

