

## A7 Bearing Processor Assembly 400074-46

The Bearing Processor assembly 400074-46 is used in DF2100 Receiver family as a central data processing unit.

It calculates the bearing from quasi-Doppler phase shift based on the information received from the A6 Dipole Processor board.

It analyzes and responds to all data received from the RS-232 port, keypad and switches.

It sets the display, alarms, internal switches and Local Oscillators according to data received.

It controls all DF2100 external communication via RS-232 and modem ports.

There are no adjustments on this board.

The board is programmable (antenna calibration and radio channels).

The board's firmware is contained in U2 PROM and it controls:

- Number of antenna dipoles (4,8 or 16)
- LO frequency
- VHF or UHF mode of operation
- Frequency Display

The board is powered from +5V DC Supply.

The board plugs into DF2100 A7 slot via DB-90 connector.

Revision history:

400074-46 original design using leaded components (obsolete)

400074-46-1 original design with updated surface mount components (June 2005)

Note: They have the same Input/Output pinout and characteristics and are fully compatible with all DF2100 systems

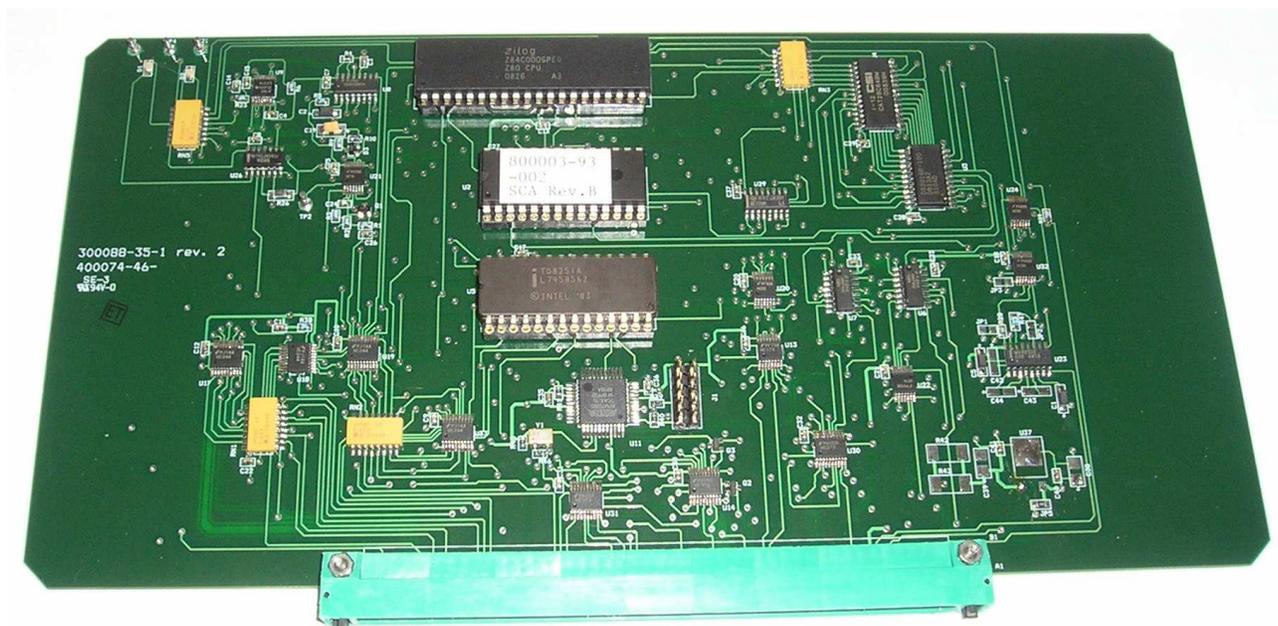


Fig.1 A7 Bearing Processor 400074-46-1