

Filtered Analog Input BNC Transition Module

This functional specification covers model 493.77 modules.

15-March-1999 Rev B

Revision History

3-March-1999 Initial Creation

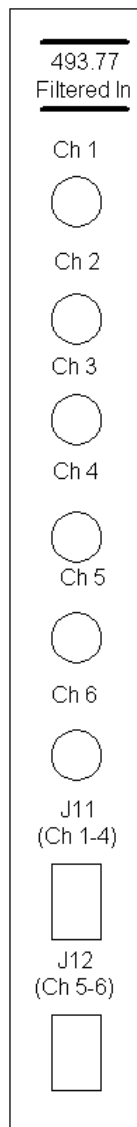
15-March-1999 Changes from Design Review

7.1 introduction

The 493.77 Filtered Analog Input BNC Transition Module is designed to be located in the rear card cage of the 493 chassis. Its' main function is to provide analog filtering to the 493.45 A/D modules.

[illegible]

7.3 functional description



The front panel of the 493.77 Filtered Analog Input BNC Transition Module (shown in the figure) on the left contains 6 BNC connectors (**J1** to **J6**) and 2 modular phone connectors (**J11** & **J12**).

- It contains a 5 pole bessel guard filter (1 per channel).
- It has 9 different cut off frequencies available from 50 to 5000Hz (sip module sub-assemblies 477744-7) and a differential input stage.
- It is a single width 6U x 80 mm module that receives its' power from the transition bus
- The circuit card has been designed to become an 8 channel version by adding the optional channels' components and using the appropriate front panels. In this fashion it could be used to connect to an Adda.

7.4 connections

Typical Connections

- **J1 to 6 Channel 1 to 8**

The system cables for the analog inputs connect to these 6 BNC connectors.

- **J11 and J12 Outputs Channel 1 to 6**

The filtered input channel data is available at these two modular phone connectors; channel 1-4 on J11 and channel 5-6 on J12. They will normally be connected to the 493.45 A/D board.

Connectors

- **J1-6**

Pin	Function
1	+Input Channel
2	-Input Channel

- **J11-12**

Pin	Function J11 (J12)
1	+Channel 1 (5)
2	-Channel 1 (5)
3	+Channel 2 (6)
4	-Channel 2 (6)
5	+Channel 3 (7)
6	-Channel 3 (7)
7	+Channel 4 (8)
8	-Channel 4 (8)

7.5 List of available filter modules

Assembly Number	(HZ)	TYPE
477744-01	50	BESSEL
477744-02	100	BESSEL
477744-03	200	BESSEL
477744-04	500	BESSEL
477744-05	1000	BESSEL
477744-06	2000	BESSEL
477744-07	5000	BESSEL
477744-08	120	BESSEL
477744-09	300	BESSEL

7.6 list of related drawings

1. Module Assembly: 560137-xx
2. Schematic: 700-000-216
3. PWB: 100-006-436
4. PWA : 100-006-463
5. Cable Assy Transition: 100-006-173
6. Filters: 477744-xx