

EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH
ORGANISATION EUROPEENNE POUR LA RECHERCHE NUCLEAIRE

PS/PA-PU SPECIFICATION 89-01
(PA-SPECIF-89-01)

TECHNICAL SPECIFICATION FOR THE ELECTRONIC PS/PA/DJ014
LOW FREQUENCY PICK-UP

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1. INTRODUCTION

These electronics are associated with electrostatic position monitors. Sum and difference signals are obtained at the output of the hybrid couplers, giving the position and the intensity of the particle beam. These signals are filtered by Bessel low pass filters, and amplified before distribution to the users. A digital control card provide the facilities for monitoring the power supply, as well as the possibility of remote gain adjustment and beam test simulation. The power supply card operates from a 48V AC distribution.

2. DESCRIPTION

Each of the 4 chassis will be composed of the following items :

- a) 1 mechanical chassis.
- b) 1 power supply card.
- c) 1 mother card (with input buffers and hybrid couplers).
- d) 3 amplifier cards.
- f) 3 Bessel low pass filter cards.
- g) 1 Test generator card.
- h) 1 control and power supply distribution card.

3. THE MANUFACTURER SHALL DO THE FOLLOWING

- assembly of printed cards (conventional and surface mounted devices),
- assembly and wiring of chassis units,
- inspect and provide preliminary tests for the 4 chassis, which means a check for accidental short circuits and correct values of power supply for all printed cards.

Final performance check will be done at CERN.

4. PARTS AND DELIVERY TIME

- CERN will deliver all mechanical and electronic material. All unused material must be returned to CERN.
- Delivery time will be maximum 60 days after reception of material from CERN.