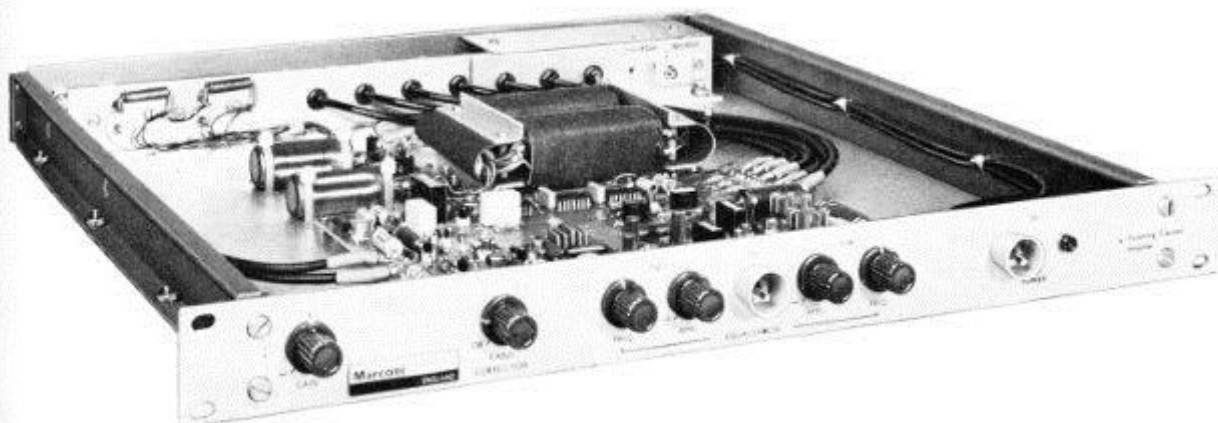




Equalising Clamped Amplifier

B4013



Features

Compact design

Self-contained

525 NTSC

625 PAL or SECAM/
monochrome

Six outputs

Equalization for cable lengths
up to 300m (1000ft)

Adjustable gain

Differential input

Description

The amplifier is designed to refurbish incoming signals which have a small degree of distortion and in situations where it would be uneconomic to provide a more comprehensive design.

The unit occupies 44.5mm (1.75in) of rack space and is complete with its own power supply. Front panel controls are provided for gain, cable correction, equalizer gain and equalizer frequency. A 'Soft' clamp giving 20dB of hum rejection is provided. The unit has a differential input giving a common mode rejection of 50dB at 50Hz.

Ordering Information

To ensure that you are supplied with equipment to your requirements, when ordering please state:

- 1 Television standard and system employed
- 2 A.C supply voltage and frequency
- 3 If spares are required
- 4 If extra handbooks are required.

Data Summary

INPUTS

A.C.: 100-125V or 200-250V 48-62Hz.

Consumption 12VA

Canon E.P.4 connector.

Video: 0.5V-2.0V composite signal.

Bridging BNC connectors. Common mode

rejection 50dB at 50Hz, 40dB at 5MHz.

Input impedance 75 Ω , return loss better than

36dB to T pulse and bar. Max d.c. on input

$\pm 5V$.

OUTPUTS

Video outputs: 6 outputs 75 Ω impedance,

BNC connectors. Return loss better than

36dB to T pulse and bar. Output isolation

greater than 40dB up to 5MHz. DC level 0V

Gain range: $\pm 6dB$, maximum output 1.4V

P-P.

Frequency response:

H.F response without equalization.

Unity gain $\pm 0.05dB$ to 5MHz, $+0.5 - 1.0dB$

to 10MHz.

H.F response with equalization for 300m

(1000ft) of T3304 cable.

$\pm 0.1dB$ to 5MHz, $\pm 1.0dB$ to 10MHz

L.F response: Tilt on 50Hz square wave: less

than 0.5% relative to 0.7V.

K rating: Better than 0.5%K with 2T pulse

and bar.

Differential gain: Better than 0.25% at 1V

output.

Differential phase: Better than 0.25° at

1V output.

Luminance non-linearity: Better than

0.1% with 1V output.

Luminance/chrominance delay

inequality: Less than 2ns.

Luminance/chrominance gain

inequality: Less than 1.0%.

R.M.S random noise - weighted:

Better than 70dB

Clamping: Removal of hum and other I.F.

distortion: better than 20dB.

Ambient temperature:

i) Storage -20° to $+60^{\circ}C$.

ii) Equipment may be switched on without

damage over the range -20° to $+45^{\circ}C$.

iii) The performance of the amplifier is

maintained for any $10^{\circ}C$ change of

ambient temperature in the range

$-10^{\circ}C$ to $+45^{\circ}C$.

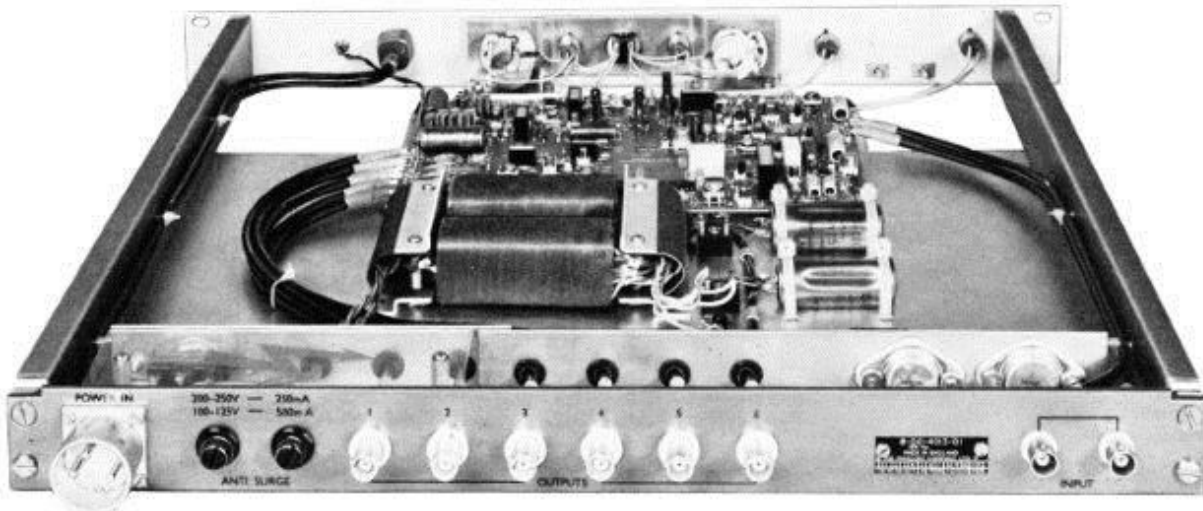
Dimensions:

Height: 44.5mm (1.75in).

Width: 483mm (19in).

Depth: 483mm (19in).

Weight: 4kg (9lb)



Rear view of the B4013

This document gives only a general description of the product(s) and shall not form part of any contract. From time to time changes may be made in the products or in the conditions of supply.

Marconi Communication Systems Limited

Chelmsford, England CM1 1PL
Telephone 0245 353221 Telex 99201
Telegrams Expanse Chelmsford Telex
A GEC-Marconi Electronics Company

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