



Grating and Dot Generator Type B 4106



THIS fully transistorized generator replaces the valved BD 959 for operation on 625 and other line standards and produces a signal suitable for testing the linearity of television display units, monitors and receivers.

Features

43 transistors and 43 diodes.
Switched selection of grating or dot outputs.
Coarse and fine controls for numbers of horizontal and vertical bars.
All controls except set +3 V and set -6 V are located on the front panel.

OPERATION

The generator provides an output of either a grating formed by horizontal and vertical bars or a series of dots of uniform duration and spacing. These provide means of rapidly checking the linearity of any display device in use.

The numbers of bars or dots are variable in both directions but the duration and uniformity of spacing of the bars or dots are always maintained.

The generator is especially useful for adjusting tricolour tubes in colour monitors.

CONSTRUCTION

The generator is assembled in a standard 3½ in. rack mounting chassis. Exterior finish is oyster grey hammer.

Data Summary

Inputs:

Mains: 100-125 V or 200-250 V 50-60 c/s, tapped 5%, fused at 500 or 250 mA.

Blanking: 2 V amplitude into 75 Ω bridging input, accepts 1.75-6 V.

Sync: 2 V amplitude into 75 Ω bridging input, accepts 1.75-6 V.

Outputs:

Either one of the following:

Grating pattern: 1.4 V composite into 75 Ω with the duration of vertical bars approximately 0.25 μs.

Dot pattern: 1.4 V composite into 75 Ω with white dots on black background.

Test signal: The output waveform also available at the front panel at high impedance.

Performance:

On 625 lines.

Horizontal bars 10 to 33.

Vertical bars 5 to 35.

If used on other line standards the ranges of number of bars would be slightly different from those above.

Temperature range: 0 to 45°C.

Dimensions:

Height 3¼ in. (8.26 cm)

Width 19 in. (48.3 cm)

Depth* 17 in. (43.2 cm)

Weight 12 lb (5.4 kg)

* Including sockets at rear.

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