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Analog Generator

SPG170A



SPG170A NTSC Sync Generator.

[Features](#)

> [Specs](#)

This product is discontinued.

View [alternative products](#).

Check [product support](#) status.

CHARACTERISTICS



SPG170A Real Panel.

Test Signal and Black Burst Generator

Luminance Amplitude Accuracy - $\pm 1\%$.

Chrominance-to-luminance Gain - $\pm 1\%$.

Output Impedance - 75 Ohm.

Return Loss - 30 dB to 4.2 MHz.

Opt. 01 -

Color Bars: SMPTE color bars.

Identification: 12 characters, 7 x 9 matrix.

Audio Tone: 449.55 Hz (locked to vertical), distortion less than 0.01%, 0 to +8 dBu into 150 Ohm, 600 Ohm, or high impedance. Click ID adjustable 0.2 to 4 Hz.

Sync Generator

Subcarrier Stability - 3.579545 MHz ± 1 Hz over temperature; typically less than 1 ppm per year drift after initial aging.

Black Burst Output -

Setup: 7.5 IRE.

Blanking: 10.7 μ s.

Pulse Outputs (General Characteristics) -

Amplitude: 4.0 ± 0.2 V.

Impedance: 75 Ohm.

Return Loss: 30 dB to 4.2 MHz.

Rise Time: 140 ns ± 20 ns.

Pulse Outputs (Signals) -

Composite Sync.

Blanking: 10.7 μ s ± 0.1 μ s.

Horizontal Blanking Duration: jumper selectable for 10.5 μ s or 10.9 μ s.

Burst Flag.

Horizontal Drive.

Vertical Drive.

Color Frame Pulse: field 1, line 11.

Subcarrier Output -

Amplitude: 2 V_{p-p} ± 0.2 V.

Sync Timing Range - 4 μ s advance,
4 μ s delay.

Genlock

Genlock Source (Comp Video) -

Input Configuration: 75 Ohm loopthrough.
Return Loss: at least 40 dB to 4.2 MHz.
Burst Amplitude: 286 mV +1 to -6 dB.
Sync Amplitude: 286 mV +3 to -6 dB.

Genlock Performance -

Horizontal Timing Range: 8 μ s advance,
8 μ s delay.
Vertical Timing Range: 0, 1, or 2 lines advance or 1 line delay,
jumper selectable.
Burst Lock Range: 3.579545 MHz \pm 20 Hz.
Jitter: 0.5° maximum.

Power Source

Mains -

Voltage Range: 90 to 132 VAC or 180 to
250 VAC.

Power Consumption - 40 W typical, 60 W maximum.

Environmental

Temperature -

Operating: 0° to 50°C.
Nonoperating: -40° to 65°C.

Physical Characteristics

Dimensions	mm	in.
Height	44	1.734
Width	483	19
Depth	561	22.1
Weight	kg	lb.
Net	6.14	13.5
Shipping	10.4	22.9

CERTIFICATION

Safety - UL1244, CSA231, EN61010-1, IEC61010-1.

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Tektronix Measurement products are
manufactured in ISO registered facilities.



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