FUNCTION GENERATOR

EAN CODE : 37602448800475

5 MHZ + AMPLI + RS232 + LabVIEW™ + (USB or LAN)*

GF467AF

COMPLETE : Reciprocal frequency counter 50 MHz.
- Internal linear or logarithmic sweep, and external VCF or FM modulation. AM modulation.
- CMos function.
- Independent offset of the attenuator.
- Two fixed -20 dB attenuators and a -40 dB variable (Total = -80 dB)

PRECISE : High waveform quality.
- Continuously variable duty cycle on all ranges.

PROTECTED : 50 Ω and TTL outputs protected against up to ±60 V reverse power surges.

EASY : All parameters display.

PROTECTED
RS232 + (USB OR LAN)*
LabVIEW™
0,01 HZ TO 5 MHZ
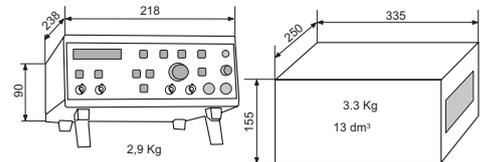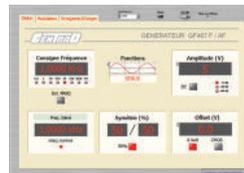## CMOS
AMPLI 15 W

*OPTIONS : RSETHER RSWIFI USBRS232

LabVIEW™

Specifications

Functions
- Triangle, sine, square, ramp, implus, offset, CMos, internal linear or logarithmic sweep, external VCF or FM modulation, AM modulation.
- Frequency range : 0,01 Hz to 5 MHz in 8 ranges.
- Frequency adjustment : Thumbwheel switch 3 steps (big, medium, fine).
- Resolution : < 0.04% of the range.

Waveform characteristics
- Sine-wave distortion : < 1% and harmonics less than < -30 dB.
- Triangle linearity error : 1% max (up to 100 KHz).
- Square-wave signal rise or fall times : 30 ns max (10 to 90%).

Duty cycle
- Calibrated : to 50% ± 1%.
- Variable : continuously from 20 to 80 % on all ranges and for all wave forms. 1% step.

Frequency sweep
- Internal : Linear or logarithmic, sweep time adjustable from 10 ms to 5 s and depth adjustable for 1 to 100. Start, arrival and lasting frequency setting. Ramp output on BNC socket, 1 volt into 35 kΩ.
- External : Input on BNC socket, input impedance : 47 kΩ ± 10%, bandwidth : DC to 20 kHz. 500:1 ratio : for a variation from 0 to -10 V (± 1V). 1:500 ratio : for a variation from 0 to +10 V (± 1V).

Amplitude modulation
- Internal : 440 Hz frequency. Depth : 4 steps at 25, 50, 75 or 100%
- External : Input on BNC socket. Depth : 1 Vrms = 100% for 10 Vcc.

Frequency counter
- Frequency range : 0 to 50 MHz in 8 automatic ranges. Reciprocal reading for very low frequencies.
- Display : 14 mm 5 digits red LEDS.
- External input : Impedance : 1 MΩ/20 pF
- Typical sensitivity : 10 mVrms
- Direct reading of the frequency in internal position.
- Accuracy to 100 kHz : ± 0,025% ±1 digit.
- Memorize the last configuration used and its parameters.

Main output (Protected against short circuits and up to ±60 V reverse power surges)
- Output impedance : 50 Ω, accuracy : ± 5%.
- Output level : 20 V peak to peak (open circuit),10 V peak to peak into 50 Ω.
- Fixed attenuation : 0, - 20 dB or -40 dB switchable.
- Variable attenuation : 0 dB to - 40 dB + DC function
- Resolution : 100 mV at 0 dB, 10 mV at - 20 dB and 1 mV at -40 dB
- Offset voltage : Independent of fixed attenuator regulating ±10 V (open circuit), ±5 V into 50 Ω

CMos function : Output signal shifting on positive range. Regulating from 0 to ±10 V in open circuit.

0,5 Ω output (Protected against short circuits)
- Output impedance : 0,5 Ω, accuracy : ±10%.
- Power : 15 W into 4 Ω ; Max current : 2 A.
- Output voltage : ± 12,5 V (open circuit)
- Offset voltage : 7,8 V into 4 Ω, independent of fixed attenuator.
- Bandwidth : DC to 100 kHz.
- Power adjustment : 0 to max via trimer.
- External input : sensitivity 5 mV, input impedance : 47 kΩ ±10%, gain = 500 ; bandwidth : 0 to 100 kHz

TTL output (Protected against short circuit and up to ±60 V reverse power surges)
- Synchronous square-wave signal 0 to 5 Volts. Fan-out : > 10.
- Rise and fall times : < 20 ns.

Other specifications
- Safety : Class II, Toroidal Safety Extra Low Voltage (SELV) Transformer. Complies with EN 61010-1, overvolt. cat. II, poll. degree 2.
- EMC : Complies with EN 61326-1.
- Protection level : IP 31.
- Interface : RS232 Link 9-way male SUB-D plug. labVIEW's drivers download on www.elc.fr
- * USB option : USB / RS232 adapter kit + null modem cable.
- * ETHERNET option : WIFI /RS232 / RS485 / RS422 adapter kit to ETHERNET.
- Input voltage : 230 V ±10%, 50/60 Hz ; 200 mA time-delay fuse.
- Mains input : socket with 2 poles irremovable.
- Power consumption : 86 VA max.
- Dielectric strength : 3000 VAC from input to output.
- Presentation : screen-printed polycarbonate front panel, metal case, with feet.