

Function generator

3MHZ AM-FM

- sine - square - pulse - triangle - TTL CMOS
- Frequency : 0.01Hz to 3.3 MHz
- Variable DC offset . Duty control
- Output overload protection
- AM / FM modulation, int/ext. lin/log
- Built-in 6 digits counter int/ext
- 3 step attenuators -20dB



REF	GFG8219
WAVEFORMS	sine - square - pulse - triangle TTL - VCF - AM - FM
FREQUENCY	0.01Hz to 3.3 MHz 7 ranges
RANGES	x1 x10 x100Hz x1 x10 x100kHz x1MHz
VARIABLE	from 0.01 to 3.3
PRECISION	Same as the precision of the counter
OUTPUT VOLTAGE	20 Vpp into 600Ω 10Vpp into 50Ω
FIXED ATTENUATORS	2 attenuators -20dB ± 1 dB
VARIABLE CONTROL	Continuously variable from 0 to -20dB
OUTPUT IMPEDANCE	50 Ω ± 10%
OVERLOAD PROTECTION	Protected against all short circuits, also permanent short circuits
OFFSET	Continuously variable from -10V to +10V into 600Ω
DUTY	Variable 20% to 80% - Calibrate to 50%
TTL OUTPUT	± 3VPP . Rise time < 25ns Load: 20TTL gates
CMOS OUTPUT	Adjust 4 to 14.5Vcc. Rise time < 120ns
VCF	$\Delta f/f = 1/100$ for a voltage step of 10VDC
GCV	signal 0 to 2V image of modulation signal
DISTORSION	
SINUS	1% from 0.3Hz to 200kHz.
TRIANGLE	Linear and symmetry > 98% from 0.1Hz to 100kHz >95% after
SQUARE	Rise time < 100ns into 50Ω Symetry : 2% from 0.3Hz to 100kHz
INTERNAL SWEEP	
SWEEP RATE	Variable from $\Delta f/f$ 1/1 to 1/100 / Lin & log
SWEEP TIME	Continuously variable from 0.5 to 30s
AMPLITUDE MODULATION	Depth of modulation : 0 to 100 %
CARRIER BANDWIDTH	100 Hz to 3 MHz (to - 3dB)
INTERNAL AM MODULATION	By an internal signal 400 Hz
EXTERNAL AM MODULATION	By external signal from DC to 1MHz < 10Vpp for 100% of depth. Input on the rear panel
FREQUENCY MODULATION	
DEVIATION	0 to 5%
INTERNAL FM MODULATION	By an internal signal 400 Hz
EXTERNAL FM MODULATION	By ext signal DC-20kHz < 10Vpp for 10% mod.
COUNTER	6 DIGITS
MODE	Internal & external BNC on the rear panel
FREQUENCY RANGES	Intern 0.01Hz to 3.3MHz. Ext. 0.01Hz to 150MHz
SENSITIVITY	35mV from 5Hz to 100MHz- 45mV after
INPUT IMPEDANCE	1MΩ // 150 pF
PRECISION / TIME BASE	Time base precision ± 1 digit / ± 10 ppm (23°C after 30mn)
SUPPLY	115 - 230 VAC 50/60Hz
DIMENSIONS / WEIGHT	251 x 91 Depth 291mm. Weight 2.2kg