Function Generators

CFG253 * CFG280

CHARACTERISTICS

Key Specifications



0. 0200.

Features

> Specs

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Waveform Outputs	Square wave, sine wave, triangle wave, TTL pulse, sweep functions for all outputs	Square wave, sine wave, triangle wave, TTL pulse, sweep functions for all outputs
Ranges	1.0 Hz to 3.0 MHz in 7 ranges	0.1 Hz (calibrated) to 11 MHz in 8 ranges
Frequency Multiplier	Variable from 0.3 to 3.0 times the selected frequency range	Variable from 0.1 to 1 (uncalibrated) 1 to 11 (calibrated)
Dial Accuracy	±5% of full scale	±5% of full scale from 0.1 Hz to 10 MHz
Sine Wave Distortion	<1% (10 Hz to 100 kHz)	<1% (10 Hz to 100 kHz), -30 dB at all other frequencies
Triangle Wave Linearity	20 Hz to 200 kHz: ≥99%; 200 kHz to 3 MHz: ≥97%	0.1 Hz to 110 kHz: ≥99%; 110 kHz to 1 MHz: ≥97%; 1 MHz to 11 MHz: ≥95%
Square Wave Response	≤100 ns rise/fall time, maximum output into 50 Ohm load	≤25 ns rise/fall time, maximum output into 50 Ohm load
Main Output Amplitude	0 to 20 V _{p-p}	0 to 20 V _{p-p}
Attenuator	20 dB	20 dB
SYNC/TTL Output	TTL output level, rise <25 ns (20 TTL load) ≥3 V pk	<25 ns rise/fall time, maximum output into 50 Ohm load
Main Output Impedance	50 Ohm ±10%	50 Ohm ±10%
DC Offset (continuously variable)	±10 V minimum open circuit; ±5 V minimum into 50 Ohm load	±10 V minimum open circuit; ±5 V minimum into 50 Ohm load
Symmetry/Duty Cycle	5 to 1 minimum symmetry change	95/5 fixed (pulse and ramp)
Internal Variable Sweep Rate	0.5 Hz to 50 Hz	0.5 Hz to 50 Hz
External Voltage- controlled Variable Sweep Range (10 kilohm Input)	100:1 minimum for 0 to +10 VDC input with frequency control set at maximum	100:1 minimum for 0 to ±10 VDC input with frequency control set at 0.1 or
		40.111

CFG253

CFG280

VCF (FM) Input ±10 V input shifts

frequency ≥100:1 up or down with dial set at 0.1 or 11 respectively

AM 0 to 100%, DBSC,

external sine wave

only

Warranty One year One year
Safety UL1244, CSA231 UL1244, CSA231
EMC Meets Meets 89/336/EEC

89/336/EEC

CFG280 Counter Specifications

Frequency Range (AC 1 Hz to 100 MHz

coupled)

Sensitivity 30 mV_{RMS} from

1 Hz to 50 MHz; 50 mV_{RMS} from 50 MHz to 100 MHz

Period 1 ms to 60 s/1 ms

Range/Resolution

Crystal Frequency 10 MHz

Time Base Stability ±0.001% (±10 ppm)

from 0° to 40°C

Frequency Accuracy ±(time base error +

1 count)

Period Accuracy ±(time base error +

1 count + trigger error)

EMC UL1244



Product manufactured in ISO 9002 registered facilities



49A-10733-4p483, 06/1997, 08/03/2000

<u>Features</u>

Specs

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