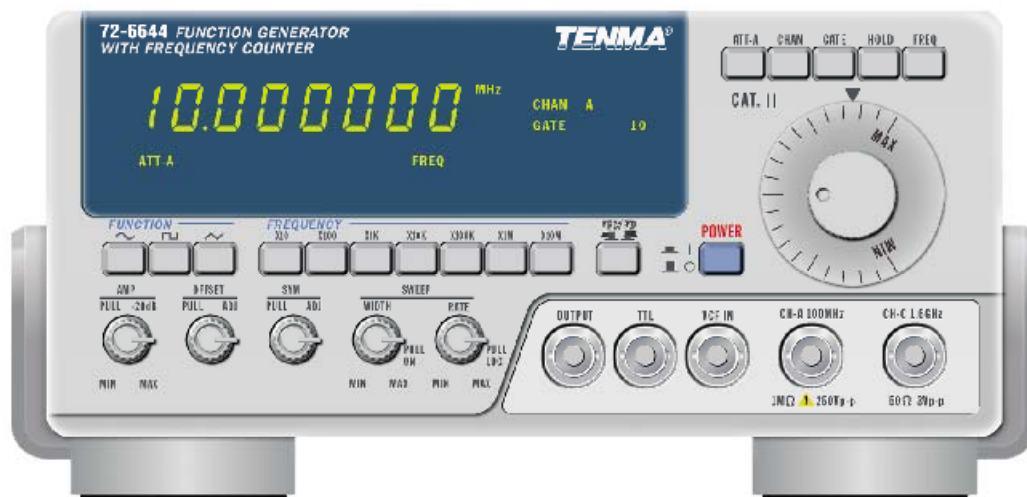




REVISIONS

DOC. NO. SPC-F004 * Effective: 7/8/02 * DCP No: 1398

| DCP # | REV | DESCRIPTION | DRAWN | DATE | CHECKD | DATE | APPRVD | DATE |
|-------|-----|-------------|-------|----------|--------|----------|--------|----------|
| 430 | A | RELEASED | JWM | 12/12/02 | HO | 12/12/02 | DJC | 12/12/02 |
| | | | | | | | | |

Function Generator Specifications:**Wave Forms:** Sine, Square, Triangle, Skewed Sine, Ramp, Pulse and TTL Level Square**Frequency:** 1Hz to 10MHz in 7 ranges**VCF Voltage Level:** 0 to 10 VDC (Max. input voltage $\pm 15V$)**Output Impedance:** 50 ohms $\pm 10\%$ **Output Amplitude:** 2Vpp to 20Vpp at open load
1Vpp to 10Vpp at 50 ohm load**Attenuator:** -20dB**Frequency Variable Range:** 20:1 or more**Symmetry Variable Range:** 3:1 or more**Offset Variable Range (Max.):** $\pm 10VDC$ at open load**Sine Wave:**

Distortion: Less than 1 % at 1KHz

Flatness: $\pm 0.3dB$ **Square Wave:**Symmetry: Less than $\pm 3\%$ (at 1KHz)

Rise & Fall Time: Less than 150nS (at 1KHz)

Triangle:

Linearity: Less than 1 % (up to 100KHz)

Less than 5 % (100KHz to 2MHz, 10MHz)

TTL Output:

Rise & Fall Time: Less than 30nS at 1KHz

Output Level: More than 3V

Frequency Sweep:

Sweep Time: 20mS to 2S

Internal Sweep Mode: Linear

Logarithmic

Sweep Width: More that 100:1

External sweep by means of VCF input

SPC-F004.DWG

| | | | | | | | |
|--|---------------|----------|--|----------|---------------------|--|---------------|
| TOLERANCES: UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY. | DRAWN BY: | DATE: | DRAWING TITLE: | | | | |
| | Jeff McVicker | 12/12/02 | 10 MHz Function Generator with Frequency Counter | | | | |
| | CHECKED BY: | DATE: | SIZE | DWG. NO. | ELECTRONIC FILE | | REV |
| | Hisham Odish | 12/12/02 | A | 72-6644 | 50N1397.dwg | | A |
| | APPROVED BY: | DATE: | SCALE: NTS | | U.O.M.: INCHES [mm] | | SHEET: 1 OF 2 |
| | Daniel Carey | 12/12/02 | | | | | |

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Frequency Counter Specifications

Measuring Range:

Channel A: 5Hz to 100MHz LED display depending on Gate Time and Input Signal
Channel C: 100MHz to 1500MHz

Input Sensitivity:

Channel A: 70mV RMS Sinewave or 100mVp-p
Channel C: 30mV RMS Sinewave for 100MHz to 1300MHz
70mV RMS Sinewave for 1300MHz to 1500MHz

Maximum Input Voltage:

Channel A: 250Vp-p
Channel C: 3Vp-p

Input Impedance:

Channel A: 1 Megohm
Channel C: 50 ohms

Attenuator:

Channel A: 1 or 1/10 (-20dB)

Time Base:

Channel A,C : Switch selectable

Resolution:

Channel A & C: 100MHz or more: 10Hz/0.1S, 1Hz/1S, 0.1Hz/10S
10Mhz or less: 6 digit/0.1S
7 digit/1S
8 digit/10S

Period Measurements:

Channel A:

Range: 0.1S to 10S
LED Display: 1 μ S to 0.1pS
Depending on gate time and input signal
At least 7 digits per second of gate time

Channel C:

Range: 0.1S to 10S
LSD Display: 1 μ S to 0.1pS
Least display limited by Display method 0.1pS

Overflow Indication: The "**OVER**" LED indicator flashes when an input is exceeded

Operating Temperature: 10°C to 40°C

Storage Temperature: -10°C to 50°C

Line Voltage Range: 110V/120V at 60Hz

Power Consumption: 10W Max.

Coaxial Cable: RG-58C/U, BNC Connector, 50 ohm Impedance, 1 meter in length