TENMA®

SPC-F005.DWG

REVISIONS

DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398

DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
1453	A	Released	JWM	12/23/03	HO	1/14/04	JC	9/2/04

FEATURES

- Wide frequency range, 20Hz to 150KHz, with flat output response
- Low distortion sine-wave output
- Clean-cut square wave for transient response testing
- 46 steps of selected frequency

Specifications *(at 10°C to 30°C, 80% Relative Humidity)*

General

- Frequency Range: x1 range 20Hz to 1.5KHz
  x100 range 2KHz to 150KHz
  both with 23 steps of selected frequency
- Accuracy: 20Hz to 100KHz (±3% or less)
  100KHz to 150KHz (±5% or less)
- Output Control: 0dB, -20dB and fine adjuster
- Output Impedance: 600 Ohms ±10%

Sine Wave Characteristics

- Output Voltage: 1.2V RMS Maximum (No Load)
- Output Flatness: 20Hz to 150KHz ±0.5dB (Reference Frequency 1KHz)
- Distortion: 200Hz to 15KHz 0.05% (THD) or less
  50Hz to 30KHz 0.1% (THD) or less
  20Hz to 100KHz 0.3% (THD) or less

Square Wave Characteristics

- Output Voltage: 8Vp-p maximum (When On Load)
- Rise and Fall Time: Less than 0.5μs
- Sag: Less than 5% at 20Hz
- Over Shoot: Less than 2% at maximum output
- Duty Ratio: 50% ±5%

Synchronization Characteristics

- Output Voltage: 1.2V RMS (No Load)
- Output Impedance: 1 Kilo-Ohm ±5%
- Other Spec same as Sine Wave Above

General Information

- Operating Temp: 0°C to 50°C (*Specifications apply at 10°C to 30°C)*
- Storage Temp: -20°C to 60°C *(battery removed)*
- Power Requirements: 9V battery, NEDA 1604 (included)
- Battery Life: Up to 50 hours typical with Alkaline.
  Up to 30 hours typical with Zinc carbon
- Battery Indicator: LED lamp indicates when approximately 20% battery life remains.
- Dimensions: 15cm(L) x 8.2cm(W) x 2.1cm(H)
- Weight: 200 grams (with batttery)
- Includes: User's Manual, Test leads, 9V battey (Zinc Carbon)

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:	DATE:
Jeff McVicker	12/23/03
CHECKED BY:	DATE:
Hisham Odish	1/14/04
APPROVED BY:	DATE:
John Cole	9/2/04

DRAWING TITLE: Audio Generator

SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	72-505	66F3575	A

SCALE: NTS | U.O.M.: Millimeters | SHEET: 1 OF 1