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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



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 ($\pm 3\%$ or less)
100KHz to 150KHz ($\pm 5\%$ or less)
- Output Control: 0dB, -20dB and fine adjuster
- Output Impedance: 600 Ohms $\pm 10\%$

Sine Wave Characteristics

- Output Voltage: 1.2V RMS Maximum (No Load)
- Output Flatness: 20Hz to 150KHz ± 0.5 dB (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 $0.5\mu\text{s}$
- Sag: Less than 5% at 20Hz
- Over Shoot: Less than 2% at maximum output
- Duty Ratio: 50% $\pm 5\%$

Synchronization Characteristics

- Output Voltage: 1.2V RMS (No Load)
- Output Impedance: 1 Kilo-Ohm $\pm 5\%$
- 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 battery)
- Includes: User's Manual, Test leads, 9V battery (Zinc Carbon)

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

DISCLAIMER:
ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED HEREIN ARE BASED UPON INFORMATION AND/OR TESTS WE BELIEVE TO BE ACCURATE AND RELIABLE. SINCE CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR THE INTENDED USE AND ASSUME ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH.

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

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DATE:

12/23/03

DATE:

1/14/04

DATE:

9/2/04

DRAWING TITLE:

Audio Generator

SIZE DWG. NO.

A

72-505

ELECTRONIC FILE

66F3575

REV

A

SCALE: NTS

U.O.M.: Millimeters

SHEET: 1 OF 1