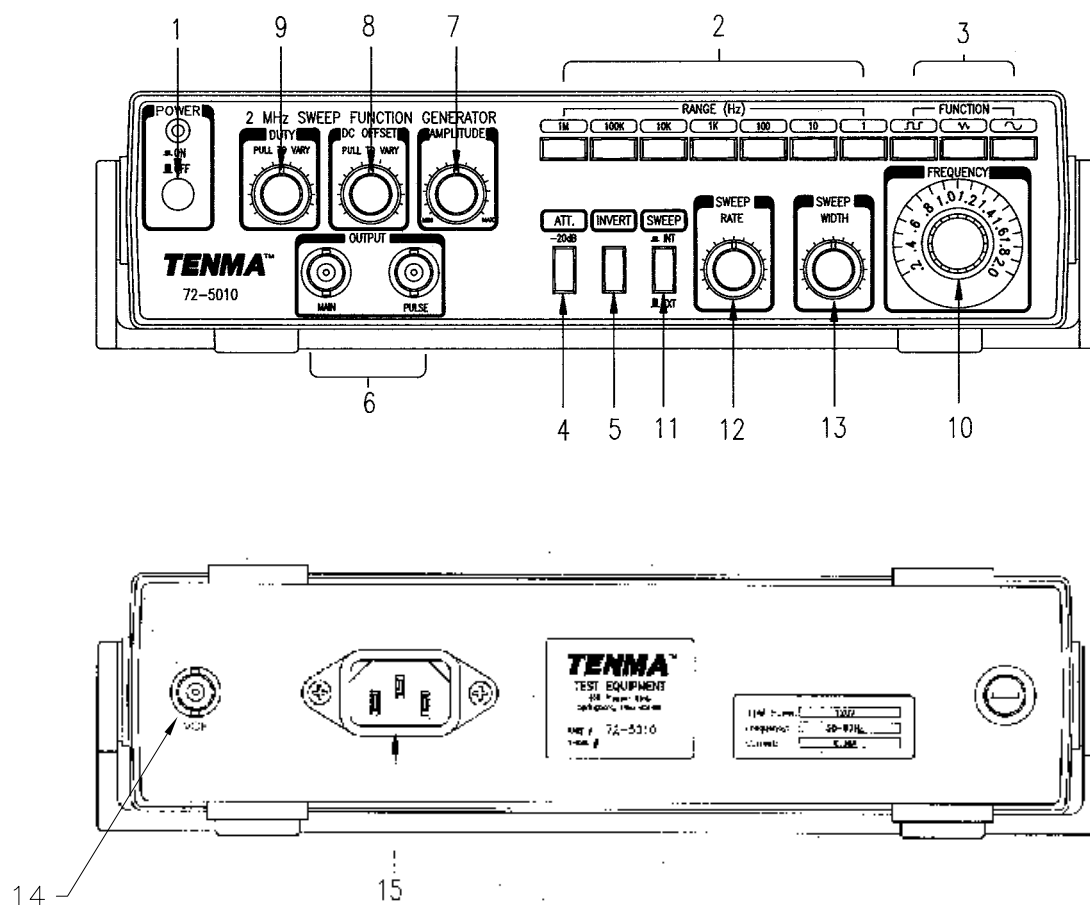




REVISIONS

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

DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
430	A	Released	JWM	10/24/02	HO	10/25/02	JC	10/25/02



Controls

- | | | | |
|---|--------------------|----|---------------------|
| 1 | Power Switch | 9 | Duty Control |
| 2 | Range Selector | 10 | Frequency Dial |
| 3 | Mode Switches | 11 | Sweep Selector |
| 4 | Attenuation Switch | 12 | Sweep Rate Control |
| 5 | Invert Switch | 13 | Sweep Width Control |
| 6 | Output Jacks | 14 | EXT Sweep In |
| 7 | Amplitude Control | 15 | Power Receptacle |
| 8 | DC Offset Control | | |

SPC-F004.DWG

TOLERANCES: UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.	DRAWN BY:	DATE:	DRAWING TITLE:			
	Jeff McVicker	10/24/02	2 MHz Sweep Function Generator			
	CHECKED BY:	DATE:	SIZE	DWG. NO.	ELECTRONIC FILE	REV
	Hisham Odish	10/25/02	A	72-5010	66F3590.dwg	A
	APPROVED BY:	DATE:	SCALE: NTS		U.O.M.: Millimeters [Inches]	SHEET: 1 OF 2
	John Cole	10/25/02				

ALL RIGHTS RESERVED. NO PORTION OF THIS PUBLICATION, WHETHER IN WHOLE OR IN PART CAN BE REPRODUCED WITHOUT THE EXPRESS WRITTEN CONSENT OF SPC TECHNOLOGY. 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.

General Specifications:

Output: Square Wave, Triangle Wave, or Sine Wave (selectable)
also TTL pulse, Sweep Output

Input: Voltage Controlled Frequency (VCF)

Frequency Range: 0.2Hz to 2 MHz in 7 ranges

Storage Temperature: -20°C to 60°C, 80% R.H.

Operating Temperature: 0°C to 40°C, 70% R.H.

Electrical Specifications:

At 23°C ±5°C <70% R.H. Max. after 1 hour warmup time

Power Consumption: 12W, 20VA max.

Frequency Ranges with Range Setting at:

1: 0.2 Hz to 2.0 Hz

10: 2 Hz to 20 Hz

100: 20 Hz to 200Hz

1K: 0.2 KHz to 2.0KHz

10K: 2 KHz to 20 KHz

100K: 20 KHz to 200KHz

1M: 0.2 MHz to 2.0 MHz

Frequency Multiplier: 0.2 to 2.0

Frequency Accuracy: ±5% of full scale

Voltage Controlled Frequency Range: 100:1 minimum for 0 to + 10V input

Sweep Characteristics:

Internal: Linear

Sweep Rate: 0.5 Hz (2 sec) to 50 Hz (20 mSEC) continuously variable

Input Impedance: 13K Ohms ±20%

Sine Wave Distortion: <1% from 10 Hz to 100 KHz

Triangle Linearity: <1% at 100 Hz

Square Wave Time Symmetry: <3% at 100 KHz

Square Wave Rise and Fall Time: <100 nsec at maximum output into 50 ohms load

Pulse Output Rise and Fall Time: <25 nsec (20 TTL loads)

Main Output: >20 Vp-p (open circuit)

Amplitude: >10 Vp-p (into 50 ohms load)

Impedance: 50 ohms ±10%

Amplitude: <100 mVp-p to >20 Vp-p (open circuit)

Adjustment: (20dB attenuator off)

Attenuator: 0dB, -20dB

DC Offset Control: <-10 V to >+10V (open circuit)

<-5V to >+5V (into 50 ohms load)

Duty Cycle Controls: 5 to 1 minimum duty cycle change (50 % at max. CCW or Cal position)

Power Requirements: 120 VAC (±10%) 50/60 Hz

Size: 261mm [10.27"](W) x 211mm [9.30"](L) x 71mm [2.79"] (H)

Weight: 1.8Kg [3.9lb]

Standard Accessories: Operator's Manual, Power Cord