

REVISIONS			DOC. NO. SPC-F004 * Effective: 7/8/02 * DCP No: 1398					
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
1453	Α	RELEASED	JWM	2/26/03	НО	2/28/03	JC	2/28/03
1741	В	220V Removed	JWM	6/22/04	JC	6/22/04	JC	6/22/04



Frequency Counter:

- Measuring Range:

Channel A: 1Hz to 20MHz

LED display depending on gate time and input signal.

At least 7 digits are displayed per each second of gate time Channel B: 20MHz to 2.7GHz

- Input Sensitivity

Channel A: 20mV RMS Signwave for 100mVp

Channel B: 40mV RMS Signwave for

20MHz to 1.3GHz or 70mV RMS Signwave for

1.3MHz to 2.7GHz

- Maximum Input Voltage: 3V Channel A: 35mVp-p

Channel B: 3mVp-p

 Input Impedance: Channel A: 1 Megohm

Channel B: 50 Ohms

 Selectable Time Base: Channel A, B Switch Selectable

Function Generator

Wave Forms: Sign, Square, Triangle, Skewed Sine, Ramp, Pulse, TTL Level

Frequency: 1Hz to 10MHz

VCF Voltage Level: 0 to 10VDC

Output Impedance: Selectable 50 Ohms ±10% 600 Ohms $\pm 10\%$

- Output Amplitude: 2vpp to 20vpp open load 1vpp to 10vpp (50 ohm load)

Sign Wave: Distortion less than 1% (at 1KHz),

Flatness + 0.3dB

Square Wave: Symmetry less than +3% (at 1KHz)

5% (100KHz to 20MHz)

- Triangle Wave: Linierity less than 1% (up to 100KHz),

SPC-F004.DWG

Digital Multimeter (True RMS)

Range of Measurement

DC Voltage: 4 (400mV to 400V) $\pm 0.06\%$ + 3dgts

 $1 (1000V) \pm 0.2\% + 3dgts$

AC Voltage: 4 (400mV to 400V) $\pm 0.8\%$ + 10dgts

 $(40Hz \sim 10 \text{ KHz}) \pm 2.5\% + 10 \text{dgts}$

 $1 (750V) \pm 1.0\% + 10 dgts$ $(40Hz \sim 1KHz)$

DC Current: 3 (40mA to 400mA) $\pm 0.3\%$ + 3dqts

 $1 (20A) \pm 0.8\% + 5 dgts$

AC Current: 3 (4mA to 400mA)

 $(40Hz \sim 1KHz) \pm 1.5\% + 10dqts$ $(1KHz \sim 10KHz) \pm 2.5\% + 10dgts$

 $1 (20A) \pm 1.5\% + 10 dgts$ $(40Hz \sim 1KHz)$

Resistance: 3 (400 Ohms \sim 4 Megohms) $\pm 0.2\% + 10$ dgts

Capacitance: 2 (40nF \sim 400nF) $\pm 2.0\% + 3$ dgts $2 (4\mu F \sim 200\mu F) \pm 3.0\% + 5 dgts$

Continuity: ≤40 Ohms

Diode: Test Current max. 1mA at 1K Ohms

(forward DC voltage max. 3V)

Logic: Test current max. 100μA

hFE: Yes

Signal Output: 10Hz ~10.24KHz, C-Mos level between

2.77 & 3.37

Power Supply (3½ digit LCD with Back-Light)

	Terminal 1	Terminal 2	Terminal 3
Output Voltage	0 ~ 30V	5V Fixed	15V Fixed
Output Amps	0 ~ 3A	2A	1A
Ripple	1mV max.	2mV max.	2mV max
Output Current	2A/3A	2.2A	1.2A

General Features

Rise & Fall time less than 150nS (at 1KHz) Line Voltage: 110V/120VAC AT 50/60Hz

Dimension: 14½"(W) x 6½"(H) x 12½"(D)

Includes: AC Power Cord, Test Leads for DMM,

& Owner's Manual

		33 3 1113 3 1113 11						
TOLERANCES:				_		_		
UNLESS OTHERWISE	Jeff McVicker	2/26/03	Multi—Function Universal System					
SPECIFIED,	CHECKED BY:	DATE:	SIZE	DWG. NO.		ELEC	TRONIC FILE	REV
DIMENSIONS ARE	Hisham Odish	2/28/03		A 72-7290		22	В	
PURPOSES ONLY.	APPROVED BY:	DATE:	- ' '	<u> </u>				
TOTAL BODG BINETI	John Cole	2/28/03	SCAL	: NTS	U.O.M.: INCHES [mm]		SHEET: 1 OF	⁻ 1