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REVISIONS			DOC. NO. SPC-F004 * Effective: 12/21/98 * DCP No: 680					
DCP #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
905	A	RELEASED	JWM	4/22/02	HO	4/25/02	DJC	4/25/02



Features

- Built-In 1 MHz Function Generator
- 20MHz, Dual Channel
- High Sensitivity 1mV/DIV
- TV Synchronization
- ALT Triggering Function
- CH1 Output
- Z axis input



CRT

Type: 6-inch rectangular type with internal graticule
8 x 10 DIV (1DIV=1cm)

Phosphor: P31

Accelerating Potential: 2kV

Z-axis Input

Sensitivity: Above 5Vp-p

Max. Input voltage: 30V (DC + AC peak)

Bandwidth: DC ~ 2MHz

Polarity: Positive-going input decrease

Focus Control: Auto focus

FUNCTION GENERATOR

Frequency Range: 0.1Hz ~ 1MHz (7 range)

Waveform: Sine Wave, Square Wave, Triangle Wave

Frequency Variable Range: 10:1 or more

Output Impedance: 50 ohms ±10%

Voltage: Over 14Vp-p (open circuit) continuous conversion
DC offset possible over ±6V when open

Sinewave Distortion: 2% Max. (10Hz ~ 100kHz)

Squarewave Unsymmetry: ±3% or less (in 1 kHz maximum)

Squarewave Rise/Fall Time: 50 ohm output: 120ns or less

VERTICAL SYSTEM

Sensitivity: 5mV/DIV ~ 5V/DIV ±3%,
1mV/DIV ~ 1V/DIV ±5% (using x 5MAG.)

Bandwidth: DC to 20MHz (x 5MAG.:DC to 7MHz)

Rise Time: Approx. 17.5ns (x 5MAG.:Approx. 50ns)

Max. Input: 300V (DC+AC peak) at 1kHz

Input Coupling: AC, DC, GND

Input Impedance: Approx. 1Megohm// 25pF

Vertical Mode: CH1, CH2, DUAL (ALT, CHOP), ADD, CH2 INV

HORIZONTAL SYSTEM

Sweep Time: 0.2µS/DIV ~ 0.5S/DIV ±3%, (±5% at x 10MAG)

Max. Sweep Rate: 100ns/DIV (20ns and 50ns/DIV are uncalibrated)

TRIGGER

Trigger Mode: AUTO, NORM, TV-V, TV-H

Trigger Source: CH1, CH2, ALT, LINE, EXT

Trigger Slope: " + " or " - "

X-Y OPERATION

Sensitivity: 5mV ~ 5V/DIV ±4%

X-axis Bandwidth: DC ~ 500kHz

Phase Error: 3° or less from DC ~ 50kHz

OUTPUT SIGNAL

Trigger Signal Output: Voltage: approx. 20mV/DIV into 50 ohms

Bandwidth : 50Hz to 5MHz (-3dB)

Impedance : Approx. 50 ohms

Calibrator Output: 1kHz Squarewave, 2Vp-p ±2%

POWER SOURCE: AC 115/230V ±15%, 50/60Hz

ACCESSORIES: Power cord

Instruction manual

Probes(10:1/1:1)

DIMENSIONS & WEIGHT: 310(W) x 150(H) x 455(D)mm; Approx. 8.5kg

SPC-F004.DWG

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CHECKED BY:	DATE:
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APPROVED BY:	DATE:
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DRAWING TITLE:
20MHz Dual Trace/Channel Oscilloscope w Function Generator

SIZE	DWG. NO.	ELECTRONIC FILE	REV
A	72-6805	18C2254.dwg	A

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