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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	Α	RELEASED	JWM	2/21/02	НО	2/21/02	DJC	2/21/02



FEATURES

- 100 MHz, Dual Channel, Delayed Sweep
- 10 Sets Memory for Front Panel Setting Save & Recall
- Time Base Auto-range
- Cursor Readout with 7 Measurements
- Panel Setup Lock of Digital-Control Functions
- Buzzer Alarm
- LED Indicators
- TV Synchronization
- Trigger Signal Output
- Z-Axis Modulation Input
- SMD Technology, High Stability and Reliability



SPC-F004.DWG

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.										
UNLESS OTHERWISE	DRAWN BY:	DATE:	DRAW	ING TITLE:						
SPECIFIED,	Jeff McVicker	2/21/02				100MHz Oscilloscope				
DIMENSIONS ARE	CHECKED BY:	DATE:	SIZE	DWG. NO.			ELEC	TRONIC FILE	REV	
FOR REFERENCE PURPOSES ONLY.	Hisham Odish	2/21/02	A		72-	-6820	18	3C2258.dwg	Α	
	APPROVED BY:	DATE:								
	Daniel Carey	2/21/02	SCALI	E: NTS		U.O.M.: INCHES [mm]		SHEET: 1 OF	3	

Downloaded from Elcodis.com electronic components distributor

CRT

Type 6-inch rectangular type with internal graticule;

0%, 10%, 90% and 100% markers. 8 x 10 DIV (1 DIV=1 cm)

Phosphor: P31

Accelerating Potential: 16 kV approx. Illumination: Continuously adjustable

Z-axis input: Coupling: DC

Sensitivity: 5V or more

Maximum input voltage: 30V(DC+AC peak) at 1kHz or less

Bandwidth: DC ~ 5MHz

VERTICAL SYSTEM

Sensitivity: 2mV ~ 5V / DIV,11 step in 1-2-5 sequence Sensitivity Accuracy: ≤ 3% (5 DIV at the center of display)

Vernier Vertical Sensitivity: Continuously variable to 1 / 2.5 or less panel-indicate value

Bandwidth(-3dB): DC ~ 100MHz (2mV/DIV : DC ~ 20MHz)

Rise Time: 3.5nS (2mV/DIV : 17.5 nS)

Signal Delay: Leading edge can be monitored

Max. Input Voltage: 400V (DC+AC peak) at 1kHz or less

Input Coupling: AC, DC, GND

Input Impedance: 1M Ω ±2%// approx. 25pF

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

Bandwidth Limited: 20MHz

Common-Mode Rejection Ratio: 50:1 or better at 50kHz

HORIZONTAL SYSTEM

Horizontal Modes: MAIN (A), ALT, DELAY (B)

A(main)Sweep Time: 50nS ~ 0.5S / DIV, continuously variable (UNCAL)

B(delay)Sweep Time: 50nS ~ 50mS / DIV

Accuracy: ±3% (+ 5% at x 10 MAG)

Sweep Magnification: x 10 (maximum sweep time 5nS / DIV)

Hold Off Time: Variable Delay Time: 1µS ~ 5S

Delay Jitter: Better than 1:20000 Alternate Separation: Variable

SIZE	DWG. NO.		ELEC	TRONIC FIL	E	REV
Α	72-	-6820	18	C2258.	dwg	Α
SCALI	E: NTS	U.O.M.: INCHES [mm]		SHEET:	2 01	- 3

TRIGGER

Trigger Modes: AUTO, NORM, TV Trigger Source: CH1, CH2, LINE, EXT Trigger Coupling: AC, DC, HFR, LFR

Trigger Slope: "+" or "-" polarity or TV sync polarity

Trigger Sensitivity:

Mode	Frequency	INT	EXT
AUTO	10Hz ~ 20MHz	0.35 DIV	50 mV
7010	20MHz ~ 100MHz	1.5 DIV	150 mV
NORM	DC ~ 20MHz	0.35 DIV	50 mV
NORW	20MHz ~ 100MHz	IHz 1.5 DIV 150	150 mV
TV	sync signal	1 DIV	200 mV _{pp}

TV Sync: TV-V, TV-H

Max. External Input Voltage: 400V (DC+AC peak) at 1kHz External Input Impedance: 1M Ω ±5%, // approx. 25pF

X-Y OPERATION

Mode: X-axis: selectable CH1, CH2, EXT

Y-axis: selectable CH1, CH2, CH1 and CH2

Sensitivity Accuracy: 2mV ~ 5V/DIV ±3%; EXT: 0.1V/DIV ±5%

X-axis Bandwidth: DC ~ 500kHz (-3dB) Phase Error: 3º or less from DC ~ 50kHz

OUTPUT SIGNAL

Trigger Signal Output: Voltage: approx. 25mV/DIV into 50 Ω

Frequency response : DC ~ 10MHz

Calibrator Output: 1kHz Squarewave, 2Vpp±2%

CURSOR READOUT FUNCTION

Cursor Measurement Function: ΔV , ΔV %, ΔV dB, ΔT , $1/\Delta T$, ΔT %, $\Delta \theta$

Cursor Resolution: 1 / 100 DIV

Effective Cursor Range Vertical: ±3DIV; Horizontal: ±4DIV

Panel Setting Display Vertical: V/DIV(CH1,CH2), UNCAL, ALT/CHOP/ADD, INV,

probe factor, AC/DC/GND

Horizontal: S / DIV(MTB, DTB), UNCAL, x 10MAG, delay time, HO

Trigger: source, coupling, slope, level, TV-V, TV-H

Others: X-Y, lock, save/recall MEM 0-9

SPECIAL FUNCTION

TIME/DIV Auto Range Provided

Panel Setting Save & Recall 10 sets

Panel Setups Lock Provided

POWER SOURCE AC: 100V / 120V / 230V ±10 %, 50 / 60Hz

ACCESSORIES: Power cord, Instruction manual, two Probes(10:1/1:1) DIMENSIONS & WEIGHT 310(W) x 150(H) x 455(D) mm; Approx. 9kg

SIZE	DWG. NO.		ELEC	TRONIC FIL	E	REV
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SCALE	E: NTS	U.O.M.: INCHES [mm]		SHEET:	3 01	- 3