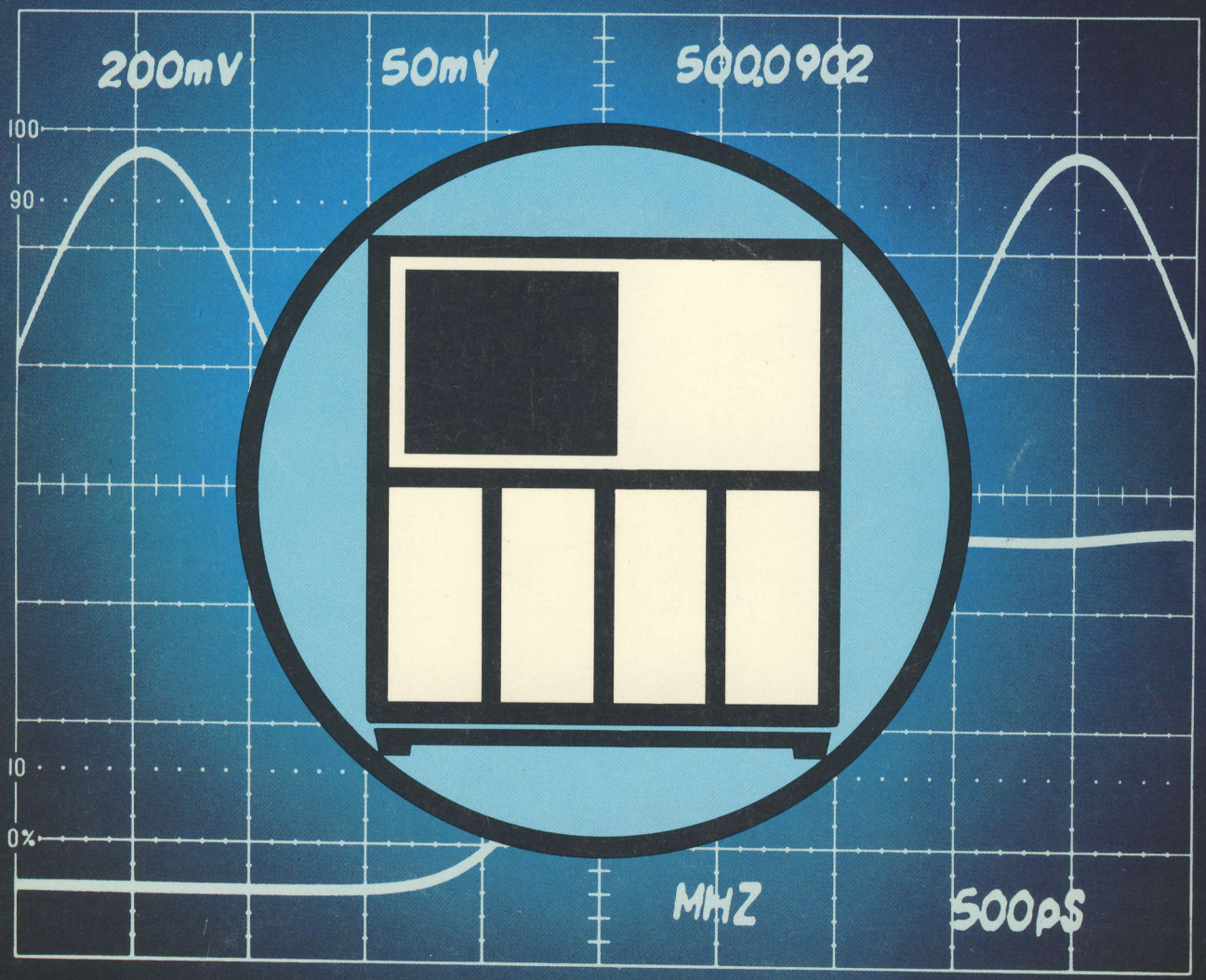
7000 series

...more than just an oscilloscope

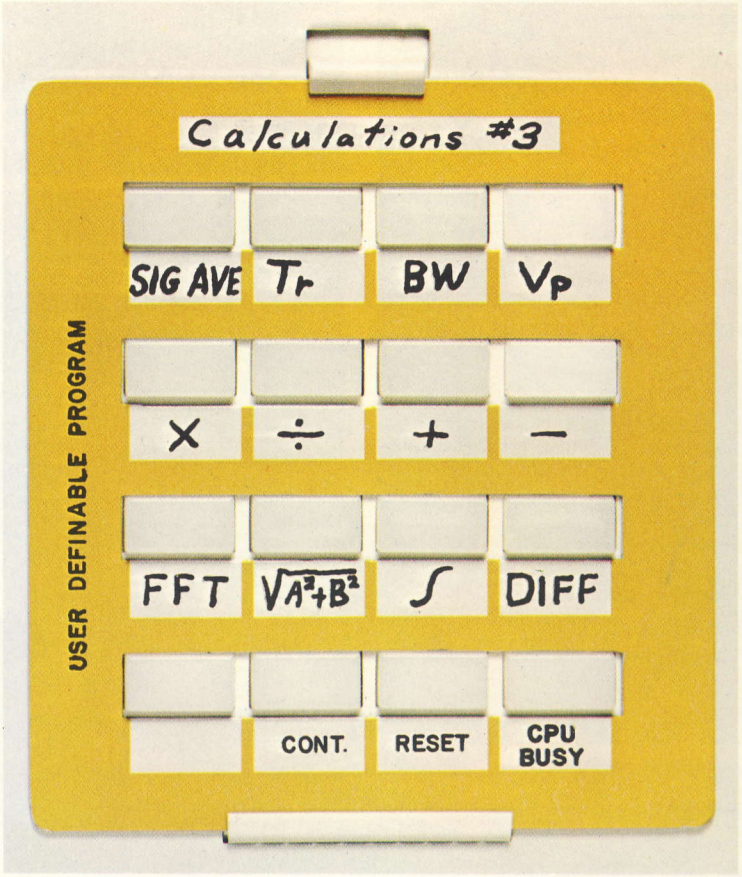


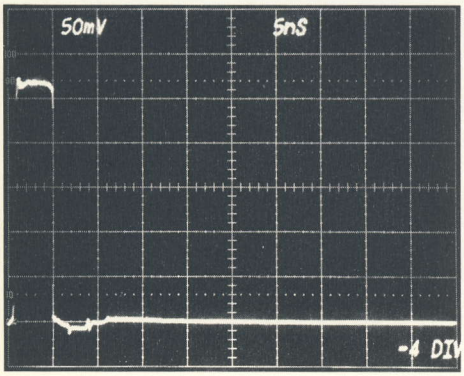
TEKTRONIX®

March 1973

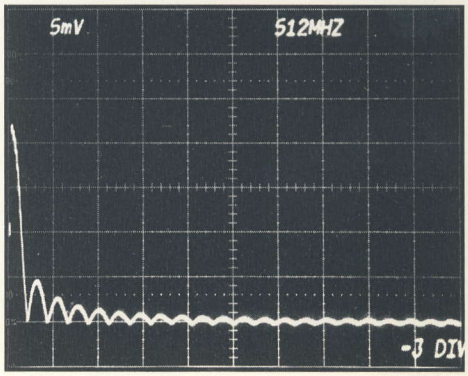
Your Choice Of Completely New Measurement Capabilities With The Digital Processing Oscilloscope

- ANY WAVEFORM ON THE DISPLAY MAY BE STORED IN MEMORY AND PROCESSED
- ALL STORED OR PROCESSED WAVEFORMS MAY BE DISPLAYED ON THE CRT
- PUSH-BUTTON ACCESS TO FULL COMPUTER PROCESSING POWER
- APPLICATION SOFTWARE INCLUDED
- MESSAGE DISPLAY—TWO LINES OF FORTY CHARACTERS
- FULL 7000-SERIES SIGNAL ACQUISITION CAPABILITIES
- FULL 7704A DISPLAY CAPABILITIES
- COMPATIBLE WITH EXISTING 7704A OSCILLOSCOPES





waveform #1



waveform #2

With the TEKTRONIX Digital Processing Oscilloscope you can perform nearly any type of calculation derived from your waveform. The User Definable Program above is only one of many programs that you can use for processing your waveforms.

The calculation and waveforms shown demonstrate how easy it is to simply push a button (that you preprogrammed) and display your results all in a matter of seconds.

Waveform #1 is a stored high-frequency pulse from a 7S12 TDR Sampling unit. Waveform #2 is the result of a Fast Fourier Transform (FFT) performed on waveform #1. Note: the horizontal scale factor on waveform #2 is 512 MHz/div (0 MHz represents left edge of CRT, 5.12 GHz represents right edge of CRT).

Processing...The 7000-Series Oscilloscope's New Link Between Acquisition And Display

Display Module—This portion is the top half of a 7704A Oscilloscope System. All data, digital and analog is displayed on its CRT.

Processing Module—This portion and its accompanying PDP-11/05 minicomputer (bottom of SCOPE-MOBILE® cart) along with included software, perform analog-to-digital conversions and mathematical operations on variables derived from your waveforms.

Acquisition Module—This portion is the lower half of the 7704A Oscilloscope System. All the 7000-Series plug-ins are compatible for signal acquisition, and greatly contribute to the vast measurement solving power of the Digital Processing Oscilloscope.

Just how significant is this new measurement capability? Very, Very significant, because if your variables in a calculation are obtained from waveforms on an oscilloscope, then the Digital Processing Oscilloscope will provide you with your answers. And, you get the advantages of speed, accuracy, lower-cost and convenience over alternate techniques. Often these advantages are so large that alternate techniques will not exist.

The waveform examples on the preceding page dramatize the before-and-after results you can achieve with push-button ease. How many calculations can be performed? We know for sure, that the amount is beyond our ability to count today.

for complete information on the Digital Processing Oscilloscope check the reply card next to inside back cover

TEKTRONIX 7000 Series

. . . more than just an oscilloscope

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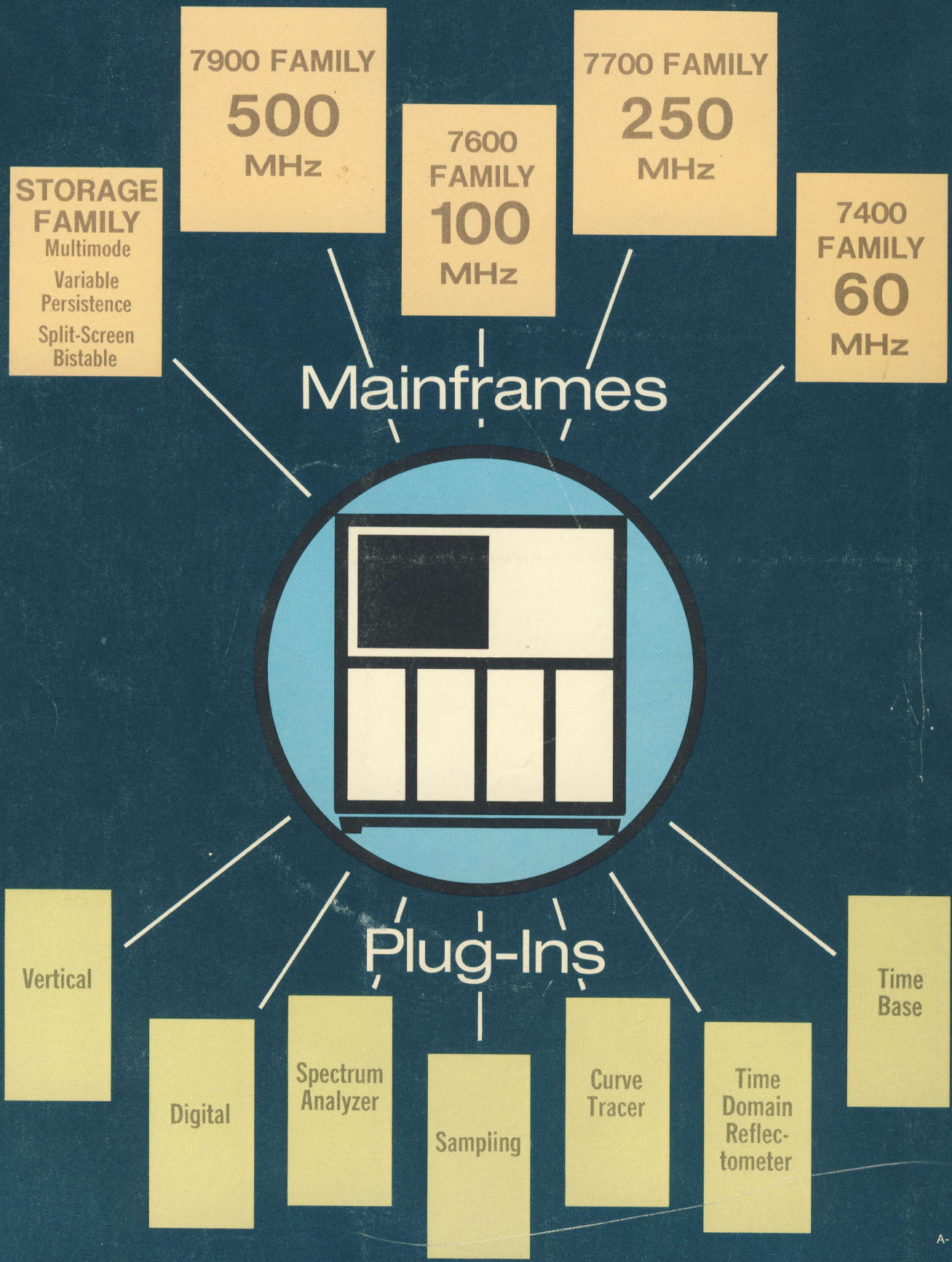

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