SPECIFICATION

INTRODUCTION

The following electrical characteristics are valid over the stated environmental range for instruments calibrated at an ambient temperature of +20°C to +30°C, and after a 5-minute warmup unless otherwise noted.

Limits and tolerances given in the Supplemental Information column are provided for user information only, and should not be interpreted as Performance Requirements.

TABLE 2-1
Electrical Characteristics

Characteristic	Performance Requirement	Supplemental Information
EVENTS and START		
Input Resistance and Capacitance		1 MΩ paralleled with 20 pF (variable)
Slope	+ or -, selectable	
Sensitivity	85 mV p-p minimum at 30 MHz; 120 mV p-p minimum at 65 MHz.	
Trigger Level Range	-1.0 V to +1.0 V	1
Frequency Response	0 to 65 MHz]
Pulse Width (minimum)	5 ns	1
TRIG VIEW Output	At least 0.5 V	Permits viewing of all shaped triggers
Source Impedance Trigger LEVEL IN/OUT Monitor Jack		200 Ω or less Probe-tip jack—allows monitoring comparator voltage of preset or trigger level to within 25 mV.
Source Impedance		Approximately 1 kΩ
TRIG'D Indicator		1
EVENTS	Visual indication of triggering	
START	Visual indication that start gate is open	
LEVEL Controls		
0 Volt Trigger Level		Within 30° of mechanical zero
START Pulse Lead Time		Simultaneous or ahead of the EVENTS pulse
Recycle Time	50 ns or less	Paralleling START and EVENTS INPUTS determines maximum ÷ N + 1 frequency

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Table 2-1 (cont)

Performance Requirement	Supplemental Information
Resets start gate and events counter circuits	
0 to 99999	
30 ns or less	
	Up to 6 ns greater than the events pulse width
At least 1 V into 50 ohms	From +0.8 to +2.2 V into 3 TTL loads (approximately 5 mA)
	Logic 1 approximately 50 ohms Logic Ø approximately 200 ohms
Indicates trigger out	
Physical Characteristics	
Fits all TM 500-Series power module plug-in compartments. (See Fig. 2-1.)	
	
	O to 99999 30 ns or less At least 1 V into 50 ohms Indicates trigger out Physical Characteristics Fits all TM 500-Series power module

Refer to the specification for the associated power module.

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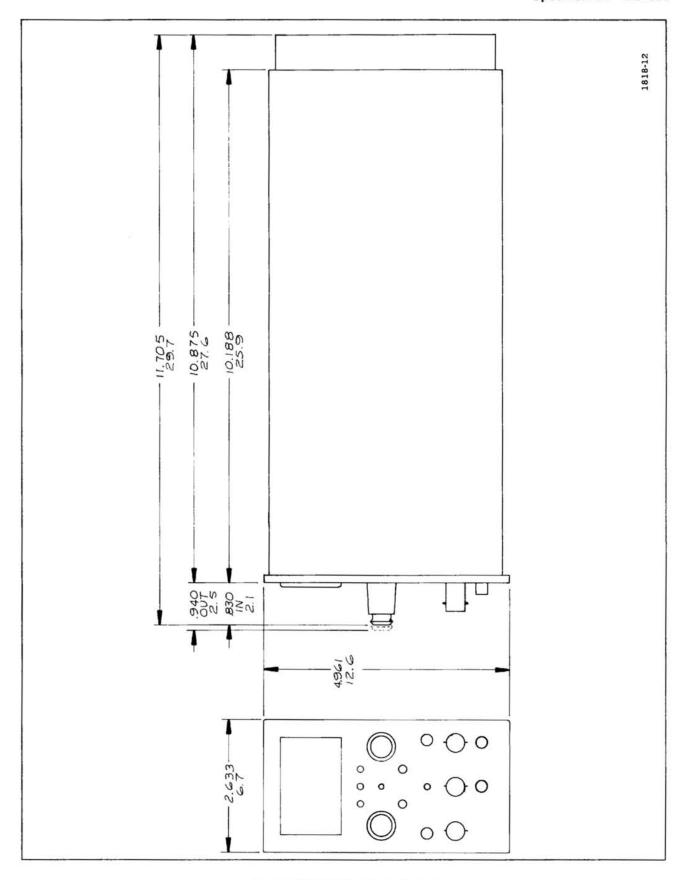


Fig. 2-1. DD 501 Dimensional Drawing.