▶ Characteristics

▶ TDS3000C Series Electrical Characteristics

	TDS3012C	TDS3014C	TDS3032C	TDS3034C	TDS3052C	TDS3054C
Bandwidth	100 MHz	100 MHz	300 MHz	300 MHz	500 MHz	500 MHz
Calculated Rise Time (typical)	3.5 ns	3.5 ns	1.2 ns	1.2 ns	0.7 ns	0.7 ns
Input Channels	2	4	2	4	2	4
External Trigger Input	Included on all models					
Sample Rate on Each Channel	1.25 GS/s	1.25 GS/s	2.5 GS/s	2.5 GS/s	5 GS/s	5 GS/s
Record Length	10 k points					
Vertical Resolution	9 bits					
Vertical Sensitivity, 1 MΩ	1 mV/div to 10 V/div					
Vertical Sensitivity, 50 Ω	1 mV/div to 1 V/div					
Input Coupling	AC, DC, GND					
Input Impedance	1 MΩ in parallel with 13 pF or 50 Ω					
DC Gain Accuracy	±2%					
Maximum Input Voltage, 1 MΩ	150 V_{RMS} with peaks at ≤ 400 V					
Maximum Input Voltage, 50 Ω	5 V_{RMS} with peaks at ≤ 30 V					
Position Range	± 5 div					
Bandwidth Limit	20 MHz	20 MHz	20 MHz, 150 MHz	20 MHz, 150 MHz	20 MHz, 150 MHz	20 MHz, 150 MHz
Time Base Range	4 ns to 10 s	4 ns to 10 s	2 ns to 10 s	2 ns to 10 s	1 ns to 10 s	1 ns to 10 s
Time Base Accuracy	±20 ppm over any 1 ms time interval					

Input/Output Interfaces

Ethernet Port	RJ-45 connector, supports 10Base-T LAN
USB Port	Front-panel USB 2.0 host port Supports USB flash drive
GPIB Port	Full talk/listen modes, setting and measurements (Optional with TDS3GV Communications Module)
RS-232-C Port	DB-9 male connector, full talk/listen modes; control of all modes, settings and measurements Baud rates up to 38,400 (Optional with TDS3GV Communications Module)
VGA Video Port	DB-15 female connector, monitor output for direct display on large VGA-equipped monitors (Optional with TDS3GV Communications Module)
External Trigger Input	BNC connector, input impedence > 1 MΩ in parallel with 17 pF; max input voltage is 150 V_{RMS}