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Find the *Tektronix HFS 9010* at our website: ***Click HERE***

Programmable Stimulus System

HFS9003 * HFS9009 * HFS9DG1 * HFS9DG2



HFS Series.

This product is discontinued.

Characteristics

Level Resolution - 0.01 V.

HIGH Level Accuracy - ±2% of level ±50 mV.

LOW Level Accuracy - ±2% of HIGH level ±2% of amplitude ±50 mV.

Output Aberrations (200 ps after 50% pt.) - Overshoot: +15% +20 mV. Undershoot: -10% - 20 mV.

Time Base Performance

Frequency Range - 50 kHz to 630 MHz.

Frequency Resolution - <0.1% of programmed value.

Frequency Accuracy - ±1% of programmed value.

RMS Jitter - 15 ps ±0.05% of interval.

PHASE LOCK IN Frequency Range - 6 MHz to 630 MHz.

PHASE LOCK IN Amplitude Range - 0.8 V to 1.0 V_{p-p}.

Output Frequency Range - Any 2^n multiple or submultiple of PHASE LOCK IN frequency. Must remain inside the allowed frequency range for installed cards.

FRAME SYNC IN - Initiates a burst when using PHASE LOCK IN external frequency reference.

Output Edge Placement Performance

Channel Deskew Range - Minus 60 ns to 2.0 µs.

Channel Deskew Resolution - 1 ps.

DELAY Adjust Range - 0 to 20 µs.

DELAY Adjust Resolution - 1 ps.

DELAY Accuracy - 1% ±50 ps.

WIDTH Adjust Range - 0 to 65,536 x one period.

WIDTH Adjust Resolution - 1 ps.

WIDTH Accuracy - HFS9DG1: 1% of width ±50 ps; HFS9DG2: 1% of width +50 ps -250 ps.

Output Performance

	HFS9DG1	HFS9DG2
Outputs	4 differential	4 single-ended
Maximum HIGH level	+5.00 V	+5.50 V
Minimum LOW level	-2.50 V	-2.00 V
Max p-p amplitude	3.00 V	5.50 V
Min p-p amplitude	0.01 V (10 mV)	0.01 V (10 mV)
Output transition time (20% to 80%)	< 250 p (≤1 V_{p-p})	variable (800 ps to 6 ns)

Trigger Input Performance

Input Resistance - 50 Ohm.

Input Voltage Range - ±5 V maximum.

Programmable Threshold Range - 4.70 V to +4.70 V.

Programmable Threshold Resolution - 100 mV.

Programmable Threshold Accuracy - ±100 mV ±5% of level.

Minimum Input Pulse Width - 1 ns.

Input Rise/Fall Time Requirement - ≤10 ns.

Sensitivity - ≤500 mV.

Power Requirements

Line Voltage Ranges - 90 V AC to 130 V AC RMS, and 180 V AC to 250 V AC RMS; range switched automatically for HFS9003 (factory configured for HFS9009).

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Line Frequency - 48 Hz to 63 Hz.

Power Consumption

	HFS9003	HFS9009
Maximum	540 W	900 W
Typical	400 W	750 W

Environmental

Temperature - Operating: 0° to +50°C (HFS9003); 0° to +40°C (HFS9009). Nonoperating: -40° to +75° C.

Humidity - 10°C to +30°C up to 95% relative humidity. 30°C to 40°C up to 75% relative humidity.

Altitude, Shock nonoperating, Bench Handling - C - Meets MIL-T-28800 Type III, Class 5.

Physical Characteristics

HFS9003	**Cabinet**		**Rackmount**	
Dimensions	**mm**	**in.**	**mm**	**in.**
Width	414	16.30	483	19.00
Height	178	7.00	178	7.00
Depth	629	24.75	629	24.75
Weight*[1]	**kg**	**lbs.**	**kg**	**lbs.**
Net	20.5	45	23.2	51
Shipping	27.3	60	30.0	66

*[1] Maximum configuration.

HFS9009	**Cabinet**	
Dimensions	**mm**	**in.**
Width	426	16.75
Height	356	14.00
Depth	610	24.00
Weight	**kg**	**lbs.**
Net	36.8	81
Shipping	45.5	100

HFS9DG1, HFS9DG2	**Cabinet**	
Dimensions	**mm**	**in.**
Width	51	2.0
Height	267	10.5

Depth	356	14.0
Weight	**kg**	**lbs.**
Shipping	1.36	3

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