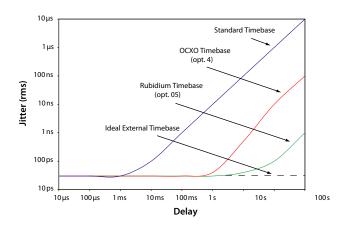
DG645 Digital Delay/Pulse Generator



Jitter vs. programmed delay



The standard time base has an accuracy of 5 ppm, and a jitter of 10⁻⁸, which is suitable for many applications. Optional timebases are available for users who require better rate and delay accuracy or reduced rate and delay jitter.

The timing error for a 1 s delay can be as large as 5 μ s for the standard timebase, 200 ns for the OCXO timebase, but is only 500 ps for the rubidium timebase (all 1 year after calibration.)

For short delays the jitter is typically 20 ps. However, for a 1 s delay, the standard timebase can contribute up to 10 ns of jitter, while the optional timebases contribute less than 10 ps of additional jitter.

Fast Rise Time Module

The DG645 front-panel outputs have transition times of less than 2 ns. The SRD1 is an accessory, built into an in-line BNC connector, which reduces the rise time of a front-panel output to less than 100 ps. Up to 5 SRD1s can be attached to the front panel to reduce the rise time of all of the outputs.



SRD1 Fast Rise Time Module



DG645 (cover removed) with optional Rb timebase. Rear panel shows the optional eight-channel outputs.

Ordering Information

DG645	Delay/pulse generator	\$4295
Option 01	Eight delay channels (5 V)	\$750
Option 02	Eight delay channels (30 V)	\$950
Option 03	Combinatorial outputs	\$750
Option 04	OCXO timebase	\$750
Option 05	Rubidium timebase	\$1650
SRD1	100 ps rise time module	\$250
O645RMS	Single rack mount kit	\$100
O645RMD	Dual rack mount kit	\$100



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