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Find the *Programmed Test Sources PTS D310* at our website: *Click HERE*

Programmed Test Sources Inc.

PTS Frequency Synthesizers...
Fast Switching, Low Noise RF & LO Sources

PTS Synthesizer Specifications

PTS D310 DUAL CHANNEL FREQUENCY SYNTHESIZER



- two fully independent channels, each covering 0.1-310 MHz
- +3 to +13 dBm output
- low phase noise
- fast switching, 3-20 µs
- fully programmable, BCD or GPIB
- DDS standard with phase-continuous switching
- low power consumption, high reliability

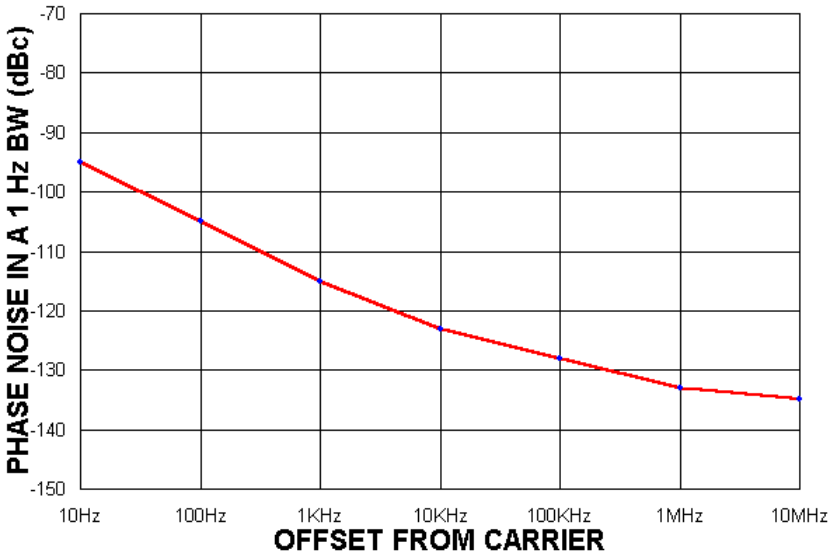
NOTE: PTS D310 shown for illustration in "R" cabinet. Consult catalog for full cabinet style listing and cabinet mechanical specifications.

SPECIFICATIONS(apply to both independently programmable output channels)

Number of channels		2 fully independent output channels
Frequency	Range:	0.100 000 0 to 309.999 999 9 MHz
	Resolution:	0.1 Hz
	Accuracy:	same as frequency standard
	Control:	remote by TTL-level parallel entry BCD or GPIB(optional)
Switching Time		(to within 0.1 radian at new frequency)
	100 MHz-10 MHz digits:	20 µseconds
	1 MHz digit:	5 µseconds
	100 KHz-0.1 Hz digits:	1 µsecond transient, 2 µsecond delay
Phase-Continuous Switching Range		100 KHz through 0.1 Hz digits (~1 MHz bandwidth)
Output	Level:	+3 to +13 dBm (1V max, 50 Ω)
	Flatness:	± 0.5 dB
	Impedance:	50 Ω
	Control:	preset and remote by analog voltage
Spurious Outputs		(at full power output, +13 dBm)
	Discrete:	-70 dBc
	Harmonics:	-30 dBc at full output (-40 dBc at lower levels)
	Phase Noise:	-63 dBc (0.5 Hz to 15 KHz) including effects of internal standard
	£ (1Hz):	100 Hz/ -105 dBc, 1 KHz/ -115 dBc, 10 KHz/ -123dBc, 100 KHz/ -127 dBc
	Noise Floor:	- 135 dBc/Hz
Frequency Standard	Internal:	OCXO or TCXO
		$3x10^{-9}$/day $1x10^{-8}$/day
		± $1x10^{-8}$/0-50° C ± $1x10^{-6}$/0-50° C
		$1x10^{-6}$/year $2x10^{-6}$/year
	External:	10.000 MHz, 0.4-2.0 Vrms into 300 Ω ; 5.000 MHz, 0.5-2.0 Vrms into 300 Ω
	Aux. Output:	10.000 MHz, 0.4 Vrms into 50 Ω (Note: internal or external standard required for operation)
General	Operating Ambient:	0 - 50° C, 95% R.H
	Power:	110 - 125V, 50 - 400 Hz, 75W (100, 220, 240V optional)
	Dimensions:	19 x 5.25 x 17.5 inches (relay rack or bench cabinet)
	Weight:	40 lbs.
	Optional Phase Rotation:	0-360° in 0.225° steps

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Pricing (USA domestic)	$8,810 plus any options



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