

SPECIFICATIONS

Frequency

Range:	1.000 000 0 MHz to 3199.999 999 9 MHz
Resolution:	1 Hz
Accuracy:	same as frequency standard
Control:	manual by keyboard and LCD; remote by TTL-level parallel entry BCD or GPIB (optional)

Switching Time (to within 0.1 radian at new frequency)

1 GHz - 10 MHz digit:	20 µseconds
1 MHz digit:	5 µseconds
100 KHz - 1 Hz digit:	1 µsecond transient, 2 µsecond delay

Phase-Continuous Switching Range:

100 KHz through 1 Hz digits
(~1 MHz bandwidth)

Output	Level:	+3 to +13 dBm (1V max, 50 Ω)
	Flatness:	±0.7 dB
	Impedance:	50 Ω
	Control:	manual by front panel control; remote by analog voltage
	Connector:	SMA female

Spurious Outputs		(at full power output, +13 dBm)
	Discrete:	-60 dBc 1 - 1600 MHz -55 dBc 1600 - 3200 MHz
	Harmonics:	-30 dBc (-35 dBc at lower power level)
	Phase Noise:	-60 dBc (0.5 Hz to 15 KHz) including effects of internal standard
	$\mathcal{L}(1\text{Hz})$:	100 Hz/-99 dBc, 1 KHz/ -108 dBc, 10 KHz/ -116 dBc, 100 KHz/ -118 dBc
	Noise Floor:	-130 dBc/Hz

Frequency Standard	Internal:	OCXO or TCXO
		3 x 10 ⁻⁹ /day ±1 x 10 ⁻⁸ /0 - 50°C 1 x 10 ⁻⁶ /year
	External:	10 MHz, 0.4-2.0 Vrms into 300 Ω; 5 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:	10 - 45°C, 95% R.H.
	Power:	105 - 125V, 50 - 400 Hz, 70W (100, 220, 240V optional)
	Dimensions:	19 x 5.25 x 18 inches (relay rack or bench cabinet)
	Weight:	35 lbs
	Optional Phase Rotation:	0 - 360° in .36° steps (in .72° steps, 1600 - 3200 MHz)



PTS 3200 FREQUENCY SYNTHESIZER

- 1 MHz to 3200 MHz
- +3 to +13 dBm output
- 1 Hz resolution with DDS phase-continuous switching
- low phase noise
- fast switching, 3 - 20µs
- fully remote control programmable, BCD or GPIB
- modular flexibility, remote-only versions
- low power consumption, high reliability

NOTE:

PTS 3200 shown for illustration in "D" and "R" cabinets.
Consult pages 28, 29 for full cabinet style listing.
Consult page 26 for cabinet mechanical specifications.

