

Programmed Test Sources PTS 040
Frequency Synthesizer



**Limited Availability
Used and in Excellent Condition**

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PTS Synthesizer Specifications

PTS 040 FREQUENCY SYNTHESIZER



- 0.1 MHz to 40 MHz
- +3 to +13 dBm output
- choice of resolution
- very low phase noise
- fast switching, 5-20 μ s
- fully programmable, BCD or GPIB
- modular flexibility, remote-only versions
- low power consumption, high reliability
- 7 decades of DDS resolution available (with phase-continuous switching)

NOTE: PTS 040 shown for illustration in "M" and "R" cabinets. Consult catalog for full cabinet style listing and mechanical specifications.

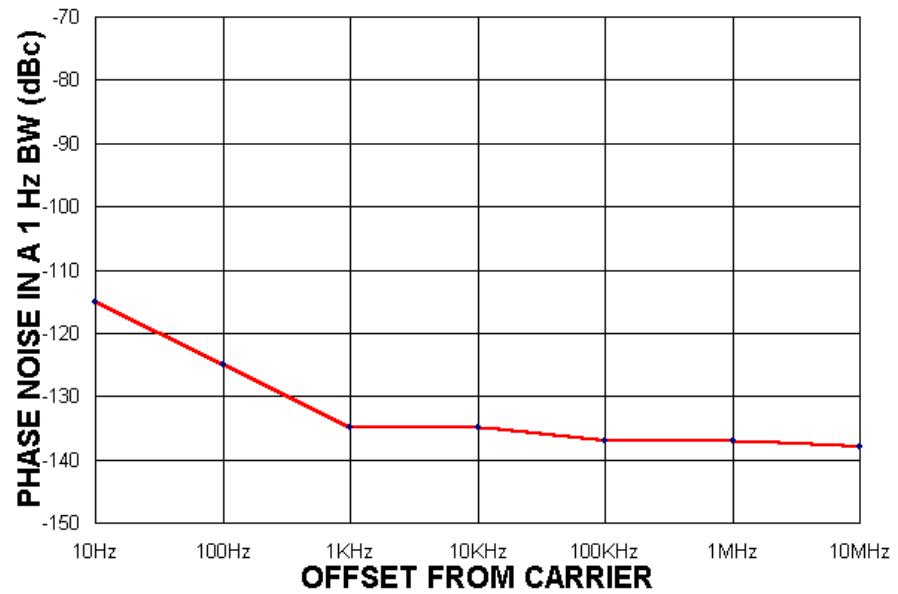
SPECIFICATIONS

| | | | | |
|--------------------|-----------------------|--|----|-------------------------------|
| Frequency | Range: | 0.100 000 0 MHz to 39.999 999 9 MHz | | |
| | Resolution: | 0.1 Hz to 100 KHz, optional in decades | | |
| | Accuracy: | same as frequency standard | | |
| | Control: | manual by 10-position dial; remote by TTL-level parallel entry BCD or GPIB (optional) | | |
| Switching Time | | (to within 0.1 radian at new frequency) | | |
| | 10 MHz digit: | 20 μseconds | | |
| | 1 MHz - 0.1 Hz digit: | 5 μseconds | | |
| Output | Level: | +3 to +13 dBm (1V max, 50 W), metered in dBm and volts(rms) | | |
| | Flatness: | ±0.4 dB | | |
| | Impedance: | 50 W | | |
| | Control: | manual by front panel control; remote by analog voltage | | |
| Spurious | | (at full power output, +13 dBm) | | |
| Outputs | Discrete: | -75 dBc | | |
| | Harmonics: | -35 dBc at full output (-40 dBc at lower level) | | |
| | Phase Noise: | -75 dBc (0.5 Hz to 15 KHz) including effects of internal standard | | |
| | £ (1Hz): | 100 Hz/ -125 dBc, 1 KHz/ -135 dBc, 10 KHz/-135 dBc, 100 KHz/ -137 dBc | | |
| | Noise Floor: | -138 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 Drive: | 10 MHz, 0.4 Vrms into 300 W ; 5 MHz, 0.5 Vrms into 300 W | | |
| | Aux. Output: | 10.000 MHz, 0.4 Vrms into 50 W | | |
| | | (Note: internal or external standard required for operation) | | |
| General | Operating Ambient: | 0 - 55° C, 95% R.H. | | |
| | Power: | 105 - 125V, 50 - 400 Hz, 40W (100, 220, 240V optional) | | |
| | Dimensions: | 19 x 5.25 x 18 inches (relay rack or bench cabinet) | | |
| | Weight: | 35 lbs. | | |

For units equipped with a **DDS-TLU option**, specifications are modified as follows:

| | | |
|-------------------------|----------------------------|---------------------------|
| DDS Option: | H | K |
| Phase-Continuous | 100 KHz thru 0.1 Hz digits | 10 KHz thru 0.1 Hz digits |
| Switching Range | (~1 MHz bandwidth) | (~100 KHz bandwidth) |

| | | |
|---------------------------------|---|---------|
| Frequency Resolution: | 0.1 Hz | 0.1 Hz |
| Optional Phase Rotation: | 0 - 360° in .36° steps | N/A |
| Switching Time | (within phase-continuous range) < 1 μ s transient, 2 μ s delay | |
| Spurious Discrete: | -65 dBc | -75 dBc |
| Outputs Phase Noise: | -65 dBc | -70 dBc |
| Pricing (USA domestic) | \$3,720 (100 KHz resolution) to \$5,565 (0.1 Hz resolution) plus any other options. | |



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