

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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Find the *Programmed Test Sources PTS 040* at our website: *Click HERE*

Programmed Test Sources Inc.

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

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 µs
- 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)		

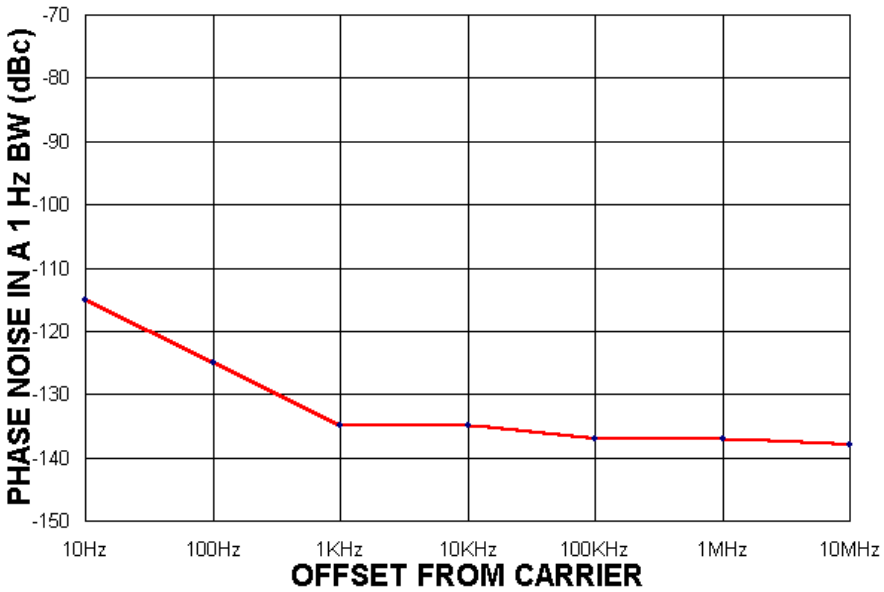
General	Operating Ambient:	0 - 55° C, 95% R.H.
	Power:	105 - 125V, 50 - 400 Hz, 40W (100, 220, 240V optional)
	Dimensions:	19 x 5.25 x 18 inches (relay rack or bench cabinet)
	Weight:	35 lbs.

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

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

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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 µs transient, 2 µs 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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Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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