

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

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

PTS 6400

FREQUENCY SYNTHESIZERS

SPECIFICATIONS

Frequency

Range:	1.000 000 MHz to 6399.999 999 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 +7 dBm (500mV max., 50Ω)
Flatness:	±1.0 dB
Impedance:	50 Ω
Control:	manual by front panel control; remote by analog voltage
Connector:	SMA female

Spurious Outputs (at full power output, +7 dBm)

Discrete:	-60 dBc	1 -3200 MHz
	-55 dBc	3200 -6400 MHz
Subharmonics:	-45 dBc	1600 -6400 MHz
Harmonics:	-30 dBc	

Phase Noise: -60 dBc (0.5 Hz to 15 KHz) including effects of internal standard

$\mathscr{L}$(1Hz):

1600 - 3200 MHz:	100 Hz/ -99dBc, 1 KHz/-108 dBc, 10 KHz/-116 dBc, 100 KHz/-118 dBc

Noise Floor:

1600 - 3200 MHz:	-136 dBc/Hz

$\mathscr{L}$(1Hz) & Noise Floor:

1 -1600 MHz:	improved by 6 dB
3200 - 6400 MHz:	degraded by 6 dB

Frequency Standard

Internal:	OCXO	or	TCXO
	3 x 10^{-9}/day		1 x 10^{-8}/day
	±1 x 10^{-8}/0 - 50ºC		±1 x 10^{-6}/0 - 50ºC
	1 x 10^{-6}/year		2 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 } BNC Connector

Aux. Output: 10.000 MHz, 0.4 Vrms into 50 Ω

(Note: internal or external standard required for operation)

General

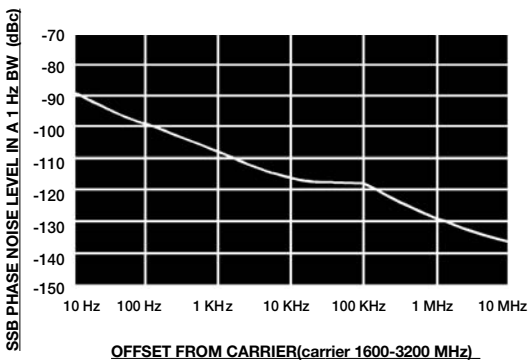
Operating Ambient:	10 - 45ºC, 95% R.H.
Power:	105 - 125V, 50 - 400 Hz, 70W (100, 220, 240V optional)
Dimensions:	19 x 5.25 x 18 inches (relay rack or bench cabinet)
Weight:	40 lbs



PTS 6400 FREQUENCY SYNTHESIZER

- 1 MHz to 6400 MHz
- -3 to +7 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 6400 shown for illustration in "D" cabinet.
Consult pages 28, 29 for full cabinet style listing.
Consult page 26 for cabinet mechanical specifications.



PROGRAMMED TEST SOURCES, inc. 9 BEAVER BROOK ROAD LITTLETON, MA 01460 U.S.A. 978-486-3400 FAX: 978-486-4495
www.programmedtest.com

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

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.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

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

ARTISAN® TECHNOLOGY GROUP