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TECHNOLOGY GROUP

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

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4211A Rubidium Frequency Standard

10MHz Rubidium Frequency Reference
1PPS Disciplining i/p Standard
RS 232 Monitor/Control
Convenient 1U bench or 19" rack mount



The ***ptf*** 4211A Rubidium Frequency Standard is an excellent, low cost, solution for providing a stable frequency reference in applications requiring atomic reference stability performance.

The instrument contains an integrated rubidium module with low aging rate, and standard output oscillator.

For even better long term stability the unit will accept a 1PPS input that can be derived from a reference such as caesium or GPS.

An ideal laboratory or system frequency reference, which includes a range of options are available to enhance the functionality of the unit.

Precise Time and Frequency, Inc.
200 Corporate Place, Peabody, MA 01960, USA

Tel: (1) 978-535-4848 • Fax: (1) 978-535-3549
Toll Free: 866-*ptf*-Inc1(866-783-4621) • www.ptfinc.com

4211A Rubidium Frequency Standard

Specifications

Electrical

Output Level (standard)

10MHz	0.5 vrms into 50Ω
1PPS	5 v CMOS w/960Ω source impedance

Output Level (w/MOPS Option)

1MHz	1.0 vrms into 50Ω +13dBm ±1dBm
5MHz	1.0 vrms into 50Ω +13dBm ±1dBm
10MHz	1.0 vrms into 50Ω +13dBm ±1dBm
1PPS	4.2 v CMOS into 50Ω

Stability

Short-term	1s	3E-11
	10s	1E-11
	100s	3E-12

Aging <5 E-11/month (after 30 days)
<5 E-10/year

Accuracy 5E-11 (at shipment)

Phase Noise 1Hz b/w,

Offset from carrier	Phase Noise (dBc)
10Hz	-90
100Hz	-128

Spurious -60 dBc (100kHz bw)

Environmental & Physical

Power Requirements

AC Input (±15%)	120 or 230 VAC, <10W
DC Input (optional)	20 to 70 VDC, 10W

Dimensions

(HxWxD) 1U x 19” x 12”

Configuration Options

Option Description	Option #
Multiple RF Ouputs (1MHz, 5MHz, 10MHz)	MOPS
Front Panel Outputs	FPOC
1MHz Sinewave Output (X4)	RF01
5MHz Sinewave Output (X4)	RF05
10MHz Sinewave Output (X4)	RF10
Pulse Distribution (X4)	PULS
T1/ E1 Distribution (X4)	TELC
DC Power Supply	DCPS
Custom Options Available	



ptf 4211A rear view (w/MOPS option)

Specifications subject to change without notice

OVERVIEW

Complementing the *ptf* range of precision frequency and time references is our series of high visibility displays.

Available in a wide variety of sizes, mounting configurations and colors, these displays provide an ideal add-on to distribute time information from any of our GPS or network time server solutions, with one source being able to drive up to 100 slave units.

In addition, these units can be used to locally regenerate time code information from a remote source.

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

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

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