



PTF

Precise Time and Frequency, LLC

4211A Rubidium Frequency Standard

- 10MHz, 1PPS, 1PPS LVDS outputs
- Additional Outputs Available
- Low Noise
- 1PPS Disciplining in
- Convenient 1U, 19" rack mount package



The **ptf 4211A** is an excellent low noise RF source for applications requiring atomic clock stability, with special output provisions including 1PPS LVDS outputs.

This is an ideal solution to applications requiring a low noise, highly accurate, standalone, frequency reference. A range of options are available to enhance the functionality of the instrument if required.

The **unit also provides a 1PPS** input for long term disciplining to GPS or other satellite derived signals.

SPECIFICATIONS

RF Outputs		Offset (10MHz) carrier	Ph Noise(dBc)/Hz
Frequency	10MHz (sine wave)	1Hz	-75
	10MHz 5V CMOS	10Hz	-95
Amplitude	>13dBm	100Hz	-125
		1000Hz	-145
Digital Outputs		10000Hz	-145
1PPS	5V CMOS, 25 μ sec	Inputs	
	LVDS	1PPS	5V CMOS, 25 μ sec
Stability (Allan Deviation)		Input Power requirements	
1 second	3E-11	110 to 240 V (+/-10%) AC / 50-60 Hz	
10 seconds	1E-11	Dimensions	1U(1.75") h x 19"w x 12" d
100 seconds	3E-12	Temperature	
Aging		Operating	0 to 50 degrees Celsius
after 30 days of operation	<5E-11/month	Storage	-10 to +70 degrees Celsius
per year	<5E-10	Humidity	0 to 95%, non-condensing
Accuracy at shipment	<5E-11	Weight	< 12 lbs
Spurious	<-80dBc		
Phase Noise			

Specifications subject to change without notice

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