Precise Time and Frequency,LLC

1203C Broadband RF Distribution

- **Input Frequencies 500kHz to 50MHz**
- **12 Broadband Outputs**
- **Low Additive Phase Noise**
- **Isolation (>100dB typical)**
- **Low Cost**
- **Convenient 1U, 19" rack mount package**

The ***ptf*** 1203C Broadband RF Distribution amplifier provides high performance frequency references for laboratory or system use.

The ***ptf*** 1203C uses two stages of input signal buffering to distribute the input signal to 12 separate outputs and insure maximum isolation between individual output signals.

In most applications the phase noise capability of the ***ptf*** 1203C will outperform the input signal performance to such a degree that no additive phase noise will be noticeable on the outputs.

Isolation output to output is >100 dB and harmonics are <-40 dB.

SPECIFICATIONS

ELECTRICAL

RF Output (twelve)

Frequency Range	900kHz to 50MHz
Broadband outputs	90 Hz - 20 MHz (opt)
Level	1V rms (nominal)
Harmonic Distortion	<-40 dB
Non-Harmonic Signals	<-80 dB
Load Impedance	50ohms
Isolation	>90 dB*
Connectors	BNC
*Isolation alternating channels	>100dB, up to 30MHz

Additive SSB Phase Noise

(1 Hz Bandwidth) Offset	@10MHz	@5MHz
1 Hz	-136 dBc	-141dBc
10 Hz	-153 dBc	-159dBc
100 Hz	-160 dBc	-166dBc
1,000 Hz	-162 dBc	-168dBc
10,000 Hz	-162 dBc	-168dBc

RF Input

Frequency Range	900kHz to 50MHz 90 Hz - 20 MHz (opt)
Level	1 V rms (nominal)

Alarm Output

Summary alarm indicates failure of any output signal

Non-alarm condition:	Relay energized (fail safe)
Connector:	9 pin D-male

Controls & Indicators

Power	Green LED, power is connected
Alarm	Red LED, signal output failure

ENVIRONMENTAL & PHYSICAL

Temperature:	0° to 55° C
Relative Humidity:	0 to 95%, non-cond.
Power Requirements	
AC Input (±15%)	90 - 264 VAC, <10W
DC Input (optional)	
Dimensions	(HxWxD): 1Ux19”x16”

Specifications subject to change without notice

50L Audubon Road, Wakefield, MA 01880, USA
Tel: (+1) 781 245 9090 Fax: (+1) 781 245 9099 www.ptf-llc.com rev. F