



ptf

1203C BROADBAND RF DISTRIBUTION

- Input Frequencies 900kHz 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.

SPECIFICATIONS

ELECTRICAL

RF Output (twelve)

| | |
|----------------------|-------------------------------------------------------------------|
| Frequency Range | 900kHz to 50MHz Broadband outputs 90 Hz - 20 MHz (optional) |
| Level | 1V rms (nominal) |
| Harmonic Distortion | <-40 dB |
| Non-Harmonic Signals | <-80 dB |
| Load Impedance | 50Ω |
| Isolation | >90 dB* |
| Connectors | BNC |

*Isolation alternating channels >100dB, up to 30MHz

Additive SSB Phase Noise

| | |
|--------------------------------------|---------|
| (1 Hz Bandwidth) Offset from carrier | |
| 1 Hz | -132 dB |
| 10 Hz | -150 dB |
| 100 Hz | -160 dB |
| 1,000 Hz | -165 dB |
| 10,000 Hz | -165 dB |

RF Input

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

Alarm Output

Summary alarm indicates failure of any output signal



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.

| | |
|----------------------------------|-----------------------------------|
| 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-condensing |
| Power Requirements | |
| AC Input (±15%) | 90 - 264 VAC, <10W |
| DC Input (optional) | |
| Dimensions (HxWxD): | 1U x 19" x 12" |

Configuration Options

| Option # | Description |
|----------|--------------------|
| DCPS | DC Power Supply |
| RSLD | Mounted Rackslides |



ptf 1203C rear view

Specifications subject to change without notice