

1212A Frequency Multiplier

- Input Frequency 5MHz
- Output frequencies:
 - 10MHz
 - 100 MHz
- Low Phase Noise
- Convenient 1U, 19" rack mount package



The ptf 1212A provides very low phase noise frequency conversion from 5MHz to 10MHz and 100MHz together with the option of adding distribution to give additional signal outputs.

With **ptf**'s high performance frequency conversion modules a system can be built that is tailored to the specific needs of an application. With the added flexibility of the **ptf** family of Distribution products, adding output capability is straightforward. Dual input A/B auto switching capabilities are also available as an option

The **ptf Auto Switch** is purpose designed for time and frequency applications where reliability criteria call for redundant sources.

The primary signal is monitored and automatically switches to the backup channel within ~3msec (typical).



Fully Populated Rear Panel

Specifications subject to change without notice

SPECIFICATIONS

ELECTRICAL

RF Output

Frequency 1 (2 outputs)	10MHz
Frequency 2	100MHz
Level	1V rms/13dBm(+/-2)
Harmonic Distortion	<-40 dB
Non-Harmonic Signals	<-80 dB
Load Impedance	50 ohms
Connectors	SMA

Additive SSB Phase Noise referenced to input

(1 Hz Bandwidth) Offset	
1 Hz	-141dBc
10 Hz	-159dBc
100 Hz	-166dBc
1,000 Hz	-168dBc
10,000 Hz	-168dBc

RF Input

Frequency Range	5MHz
Level	1V rms/13dBm (nom)
Impedance	50 ohms

Alarm Output

Summary alarm indicates failure of output signal
Non-alarm condition: Relay energized (fail safe)
Connector: 9 pin D-male

Controls & Indicators

Power	Green LED
Alarm	Red LED

ENVIRONMENTAL & PHYSICAL

Temperature:	0° to 55° C
Relative Humidity:	0 to 95%, non-cond.
Power Requirements	
AC Input ($\pm 15\%$)	90 - 264 VAC, <10W
Connector types	SMA
Dimensions	(HxWxD): 1Ux19"x16"

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