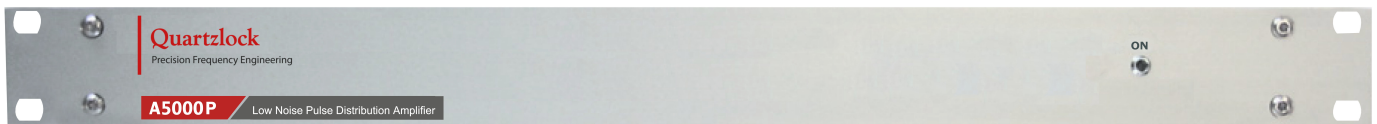


# Quartzlock A5000P

## A Fully Specified, Low Cost Distribution Amplifier



### Features

- Very Low Cost
- 1MHz - 20MHz Bandwidth
- **Comprehensive Specification**
- Excellent Short Term Stability & Phase Noise

### Benefits:

- +13dBm Output Level
- +7dBm to +15dBm  
Adjustable Input Level
- High Stability
- Low Distortion
- High Isolation

### Applications:

- Industrial Calibration Laboratories
- Telecoms
- Test Solutions
- RF Test Bench
- Production Test

# Quartzlock A5000P

## A Fully Specified, Low Cost Distribution Amplifier

### SPECIFICATION

No of outputs: A5000	6 or 12
No of inputs:	1
Input characteristics:	
a) impedance:	50 ohm nominal
b) level:	+10dBm nominal +7 dBm to +15 dBm adjustable
c) input SWR:	<1.2 :1 at 10 MHz
Output characteristics:	
a) impedance:	50 ohm nominal
b) rated output:	12dBm into 50 ohms at 10MHz
c) output SWR:	<1.2:1
d) maximum output:	13dBm into 50 ohms at 10MHz typical
Frequency response:	1MHz to 20MHz +/-1.0dB
Harmonics:	
(at rated output,10MHz) (source harmonics less than -60dBc)	
second harmonic	< -50dBc
third harmonic	< -50dBc
Isolation:	
a) output to output (adjacent outputs)	>50dB at 10 MHz typically >60dB
b) output to output (non adjacent)	Ask Quartzlock
c) output to input	>90db at 10MHz
Short term stability:(at 10MHz)	$2 \times 10^{-13}$ tau=1sec $2 \times 10^{-14}$ tau=10sec $5 \times 10^{-15}$ tau=100sec
Phase noise: (10MHz)	
offset	typical phase noise,dBc/Hz
1Hz	-115
10Hz	-145
100Hz	-146
1kHz & 10kHz	-147
Noise Floor	-155
Spurious outputs:	< -100dBc
Broadband noise	< -155 dBc/Hz
Delay match between outputs:	< 1 ns
Delay input to output	< 6ns
Supply	85 ... 240V ac
Option 1	Additional 6 outputs

### Phase Noise



**Applications:**  
**Industrial Calibration Labs**  
**Telecoms**  
**Test Solutions**  
**RF Test Benchs**  
**Systems**

**Contact us:**

**Telephone: +44(0)1444 232 967**

**E-mail: sales@quartzlock.com**

**Web: quartzlock.com**