

Quartzlock E5000

Economy Frequency Distribution Amplifier



Features

- Very Low Cost
- 1MHz - 100MHz 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:

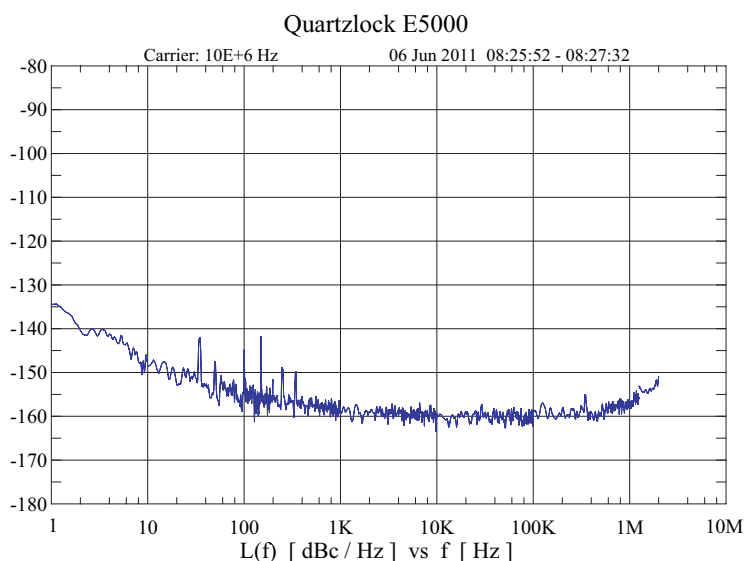
- Industrial Calibration Laboratories
- Telecoms
- Test Solutions
- RF Test Bench
- Production Test

Economy Frequency Distribution Amplifier

SPECIFICATION

No of outputs:	12
No of inputs:	1
Input characteristics:	
a) impedance:	50 ohm nominal
b) level:	+10dBm nominal +7 dBm to +13 dBm adjustable
c) input SWR:	<1.2 :1 at 10 MHz
Output characteristics:	
a) impedance:	50 ohm nominal
b) rated output:	13dBm into 50 ohms at 10MHz
c) output SWR:	<1.2:1
d) maximum output:	15dBm into 50 ohms at 10MHz typical
Frequency response:	1MHz to 70MHz +/-1.0dB 1MHz to 110MHz +2.0/-1.0dB
Harmonics:	
(at rated output,10MHz) (source harmonics less than -60dBc)	
second harmonic:	< -55dBc
third harmonic:	< -35dBc
Isolation:	
a) output to output:	>75dB (adjacent outputs) at 10 MHz typically >85dB
b) output to input:	>75db at 10MHz
Short term stability:(at 10MHz)	2×10^{-13} tau=1sec 2×10^{-14} tau=10sec 5×10^{-15} tau=100sec
Phase noise: (10MHz)	
offset	typical phase noise,dBc/Hz
1Hz	<-130
10Hz	<-145
100Hz	<-150
1kHz & 10kHz	<-155
Noise Floor:	<-150
Spurious outputs:	< -160dBc
Broadband noise:	< -145 dBm/Hz
Delay match between outputs:	< 1 ns
Delay input to output:	< 6ns
Supply:	85 ... 240V ac

Phase Noise



Quartzlock E5-6

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