Phase Matrix, Inc.™
Instruments You Can Count On

home
products
service & support
news
app notes & drivers
company profile
employment
shipping status
contact information

Phase Matrix EIP 575B/578B
Source Locking Microwave Frequency Counters with Selective Power Measurement

Phase Matrix EIP 575B/578B

This family of Phase Matrix/EIP microwave frequency counters provides fully automatic source locking of virtually any electronically tunable source to the same accuracy and long term stability as the timebase oscillator in the counter.

The ability of the 575B and the 578B to accurately set and stabilize the frequency of a source generator often eliminates the need for an expensive, synthesized signal generator.

Phase Matrix/EIP 575B/578B Features

- Source Locking
- Frequency Range of 10 MHz to 20/26.5 GHz (110 GHz optional)
- Resolution to 10 KHz
- 200 ms phase lock time
- Keyboard controlled frequency limit selection
- Power measurement accuracy to ±0.5 dB typical
- -30 dBm sensitivity
- 200 Watt (+53 dBm) peak damage protection
- 200 ms acquisition time
- 20 MHz P-P FM tolerance up to a 10 MHz rate

Automatic Broad-Band Tuning

Operation of the source and counter combination is straightforward and automatic. Lock frequency is easily entered via the front panel keyboard or via standard GPIB interface. The counter automatically takes it from there, locking the source at the entered frequency

Frequency Storage and Recall

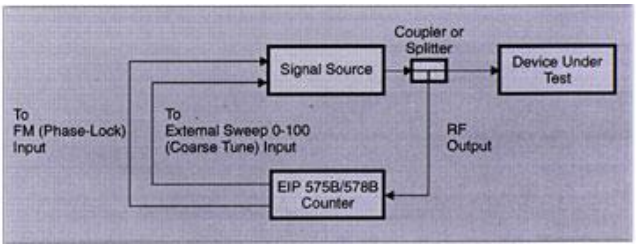
For repetitive production testing, an operator can store up to nine lock frequencies and rapidly recall them as needed. This also reduces typical lock times for steps over 10 MHz to <300 ms.

New Flexibility For GPIB-based ATE Systems

The Phase Matrix 575B/578B family of counters offers new flexibility and efficiency in controller programming of your source. First, programming steps can be eliminated by letting the counter directly control the sources frequency over its entire frequency range. Second, only a single command string to the counter is needed to set and lock the source. Third, the signal source does not need to have GPIB capability. The counter constantly monitors and corrects the source thereby relieving the controller of the task of checking the frequency and issuing correction commands. The ability to rapidly step and lock the signal source also saves test time as shown by these examples:

Frequency Step Typical Lock Time

1 MHz <200 ms
10 MHz <300 ms
1 GHz <500 ms



Only three connections are required to coarse tune and then phase lock an electrically tunable source

Prices and/or specifications subject to change without notice.

Get Acrobat® Reader Download the datasheet for the **Phase Matrix EIP 575B/578B**

Locate a Sales Representative

Phase Matrix, Inc.
109 Bonaventura Dr.
San Jose, California
95134 - 2106 USA

TEL: +1 (408) 428.1000
TOLL FREE: +1 (877) 474.2736 [4PHASEM]
FAX: +1 (408) 428.1500
Sales E-mail: sales@phasematrix.com
Service E-mail: service@phasematrix.com
Quality E-mail: quality@phasematrix.com