

EIP MICROWAVE

575

The EIP Microwave 575 is a legacy high-performance microwave frequency counter featuring automatic source locking capabilities from 10 Hz up to 18 GHz. Equipped with a YIG-tuned RF input filter, it provides high FM tolerance, excellent amplitude discrimination, and standard GPIB remote programming interface, making it ideal for phase-locking microwave signal sources and sweepers.

SPECIFICATIONS

General

Interfaces	GPIB (IEEE-488)
Display	12-digit LED display

Physical

Power Supply	100 / 120 / 220 / 240 V AC ($\pm 10\%$), 50 to 60 Hz
Operating Temperature	0 to 50 °C °C
Dimensions (W×H×D)	432 × 89 × 457 mm mm
Weight	9.1 kg kg

Frequency Measurement

Frequency Range - Band 1	10 Hz to 100 MHz
Frequency Range - Band 2	10 MHz to 1 GHz
Frequency Range - Band 3 (Microwave)	1 GHz to 18 GHz
Sensitivity - Band 1	25 mV rms
Sensitivity - Band 2	-20 dBm
Sensitivity - Band 3	-25 dBm (1 GHz to 12.4 GHz), -20 dBm (12.4 GHz to 18 GHz)
Input Impedance - Band 1	1 M Ω shunted by 25 pF
Input Impedance - Band 2	50 Ω nominal
Input Impedance - Band 3	50 Ω nominal
Input Coupling	AC-coupled (all bands)
Input Connector - Band 1	BNC female
Input Connector - Band 2	BNC female
Input Connector - Band 3	Precision Type N female
Maximum Input Level - Band 3	+10 dBm
Damage Level - Band 3	+40 dBm (10 W) continuous
Resolution	Selectable 1 Hz to 1 GHz
Measurement Time	1 ms for 1 kHz resolution, 1 s for 1 Hz resolution
FM Tolerance	Up to 20 MHz p-p
Amplitude Discrimination	10 dB for signals separated by > 200 MHz
Input Preselector	YIG-tuned RF filter

Source Locking & Control

Source Locking Frequency Range	10 MHz to 18 GHz
Lock Resolution	10 kHz
DAC Control Voltage Output	± 10 V

Time Base & Reference Oscillator

Internal Reference Frequency	10 MHz
External Reference Input	10 MHz, 1 V p-p minimum into 50 Ω
Internal Reference Output	10 MHz, 1 V p-p minimum into 50 Ω

Environmental & Reliability

Storage Temperature Range	-40 °C to +75 °C
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Options & Accessories

Option 01	High Stability Oven Timebase
Option 02	Rear Panel Input Configuration

Power Requirements

Line Voltage	100 / 120 / 220 / 240 VAC ±10% (rear panel selectable)
Line Frequency	47 to 440 Hz
Power Consumption	120 VA maximum

Environmental

Operating Humidity	Up to 95% relative humidity (non-condensing) at +40 °C
Operating Altitude	Up to 3,000 m (10,000 ft)

Source Locking

Source Modulation Sensitivity Range	0.1 to 100 MHz/V (either polarity)
Lock Voltage Range	-10 V to +10 V
Lock Output Impedance	100 Ohm nominal
DAC Resolution	12-bit

Options

Option 09	Option 02 = Rear Panel Inputs (moves all front panel inputs to the rear panel)
Option 10	Chassis Slides

Display & Controls

Display Type	12-digit LED
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Input Band 2

Damage Level - Band 2	+30 dBm (1 W) continuous
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Input Band 3

Preselector Type	YIG-tuned automatic tracking preselector
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Inputs & Outputs

GP-IB Connector	24-pin IEEE-488 (rear panel)
Lock Output Connector	BNC female (rear panel)
External Reference Input Connector	BNC female (rear panel)
Internal Reference Output Connector	BNC female (rear panel)

TECHNOLOGY

YIG-tuned filter, automatic phase-locked loop (PLL) source locking

APPLICATIONS

Microwave frequency measurement, automatic signal source locking and frequency stabilization

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.