



Description

The 9762 is a high accuracy rubidium atomic frequency reference. It is designed to enhance the output frequency of the 5045 oscilloscope calibrator up to 10 MHz. It can also be used with the 5025 and 5051 multifunction calibrators when the oscilloscope calibration option (9770) is fitted.

It is designed for long operating periods of up to 10 years without maintenance. The unit provides a highly stable frequency with good short and long term stability. It is ideal for referencing frequency outputs on the 5045, 5025, and 5051 calibrators.

Technical Specifications

Frequency	10 MHz sine-wave into 50 Ω.
Output level.....	0.5 V rms ± 10 % (approx 1.41 Vpp or 7 dBm).
Aging 1 month	1 x 10 ⁻¹⁰ .
Aging 1 year.....	5 x 10 ⁻¹⁰ .
Short term stability (Allan variance)	< 2 x 10 ⁻¹¹ (1 s). < 1 x 10 ⁻¹¹ (10 s). < 2 x 10 ⁻¹² (100 s).

General Specifications

Warm up time.....	Less than 6 minutes to lock (starting at 25 °C). Less than 7 minutes to 5 x 10 ⁻⁹ (starting at 25 °C).
Operating temperature	0 to 50 °C.
Connection.....	BNC.
Indicators	Power and Lock.
Power supply	110 V to 250 V (external).
Dimensions	190 x 120 x 90 mm.
Weight.....	0.6 kg.

Features

- High accuracy frequency reference
- For use with the 5045 scope calibrator
- Compatible with 5025/5051 (with scope option)
- 10 MHz sine-wave
- Accuracy 1 x 10⁻¹⁰
- Good short and long-term stability
- Compact design (190 x 120 x 90 mm)
- Built for long operating periods (10 yrs)

Ordering Information

9762.....Rubidium Frequency Standard

Due to continuous development Time Electronics reserves the right to change specifications without prior notice.