



# Time Electronics

## 9762 Rubidium Frequency Standard



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

### 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 10MHz. 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 .....	10MHz sine-wave into 50Ω
Output Level .....	0.5Vrms +/-10% (approx 1.41Vpp or 7dBm)
Aging 1 month .....	$1 \times 10^{-10}$
Aging 1 year .....	$5 \times 10^{-10}$
Short term stability (Allan variance) .....	$<2 \times 10^{-11}$ (1s) $<1 \times 10^{-11}$ (10s) $<2 \times 10^{-12}$ (100s)

### GENERAL SPECIFICATIONS

Warm up time .....	Less than 6 minutes to lock (starting at 25°C. Less than 7 minutes to $5 \times 10^{-9}$ (starting at 25°C)
Operating Temperature .....	0°C to 50°C
Connection .....	BNC
Indicators .....	Power and Lock.
Power Supply .....	110V to 250V (external)
Dimensions .....	190 x 120 x 90mm
Weight .....	0.6Kg

### ORDERING INFORMATION

**9762** ..... **Rubidium Frequency Standard**

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

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