

# CREF1000

## 10-1000 MHz Reference Signal Generator



### Overview

The OPTELLENT CREF100 is a cost-effective, easy-to-use signal generator system for R&D and manufacturing environments. It generates a reference clock in a compact module. The CREF100 produces a variable clock output between 10 and 1000 MHz with a resolution of 10 kHz.

An intuitive Graphical User Interface enables easy point-and-click operation. The Optellent CREF100 software runs on Windows platforms over USB or RS-232 serial interface via an RJ-45 Connector provided on the front panel.

### Applications

- ▶ External reference clock for Data Generators/BERT
- ▶ Source for RF signal generators
- ▶ Testing of RF/optical transceivers, transponders, linecards, and subsystems
- ▶ Testing of Gb/s ICs, electronic modules, subsystems, and systems

### Key Features

- ▶ **Single-ended or Differential Outputs**
- ▶ **Suited for wireless and datacom testing**
- ▶ **10 kHz resolution**
- ▶ **Variable output amplitude option**

### System Specifications

PARAMETER	MIN	MAX	UNIT
Chassis Electrical Voltage	5.0	5.5	V(DC)
Operating Temperature Range	5	45	°C
Storage Temperature Range	-40	70	°C
Dimensions (L x W x H)	160 x 106 x 56		mm <sup>3</sup> inch <sup>3</sup>
PC Interface	USB		
Standard Warranty	2 years		

## Specifications

Parameter	Min	Typ	Max	Units
Output format	Single-ended or Differential			
Clock frequency	10		1000	MHz
Output amplitude (single-ended) <sup>1</sup>		400	800	mV
RMS Jitter			1.0	ps
Electrical terminations/connectors	AC-coupled 50Ω SMA Female			

<sup>1</sup> Higher amplitude/variable amplitude options available