

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 ³ |
| | 6.4 x 4.25 x 2.25 | | inch ³ |
| 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) ¹ | | 400 | 800 | mV |
| RMS Jitter | | | 1.0 | ps |
| Electrical terminations/connectors | AC-coupled 50Ω SMA Female | | | |

¹ Higher amplitude/variable amplitude options available