

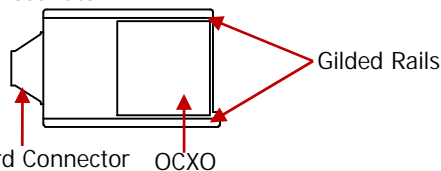


OCXO-B08 High Stable Reference Clock

Product Overview

The high stable reference clock (namely the OCXO module; the order number is OCXO-B08) is an option for DSG800 series RF signal generator and mainly includes the following parts.

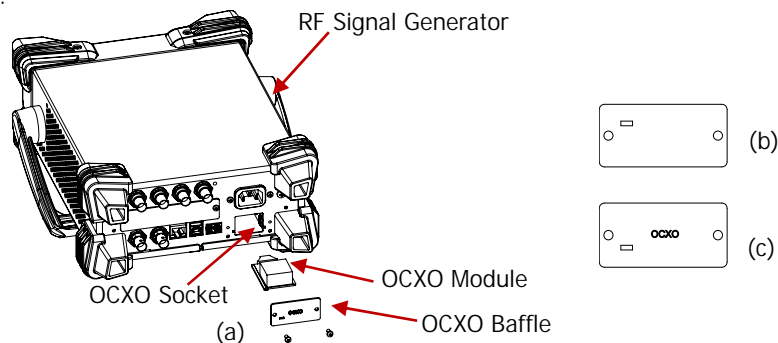
- High-speed mother-daughter board connector: make electric connection between the OCXO module and RF signal generator.
- Gilded rails: ensure good electric connection between the OCXO module and the OCXO rail grooves of the RF signal generator.
- OCXO: oven controlled crystal oscillator.



High-speed Mother-Daughter Board Connector OCXO

Disassemble&Assemble Explanations

The connecting method of the OCXO module and RF signal generator is as shown in the figure below.



1. Assemble Procedures:

- (1) Disassemble the OCXO baffle on the rear panel of DSG800 using a screwdriver (T10), as shown in figure (b).
- (2) Insert the OCXO module into the OCXO socket as shown in figure (a) and make sure that the OCXO module is firmly connected.
- (3) Fix the baffle with the surface marked with "OCXO" facing outwards (as shown in figure (c)) using 2 screws.

2. Disassemble Procedures:

- (1) Disassemble the OCXO baffle on the rear panel of DSG800 using a screwdriver (T10), as shown in figure (c).
- (2) Extract the OCXO module using nipper pliers.
- (3) Fix the baffle with the surface marked with "OCXO" facing inwards (as shown in

figure (b)) using 2 screws.



CAUTION

When disassembling or assembling the OCXO module, please wear antistatic gloves or make other antistatic precautions and avoid touching the OCXO module with your hands directly.



WARNING

To avoid electric shock, make sure that the instrument is turned off and the power supply is disconnected before disassembling or assembling the OCXO module.

Specifications

Operating Environment	Temperature: 0°C to 50°C; humidity: 0 to 80%RH
Storage Environment	Temperature: -20°C to 60°C; humidity: 0 to 90%RH
Module Dimensions	32 mm × 17 mm × 59 mm (W × H × D)
Module Weight	22 g
Input Voltage	5.00 V ± 0.25 V
Start-up Current	< 600 mA
Stable Current	< 300 mA
Output Frequency	10 MHz
Temperature Stability	< 5 ppb
Aging Rate	< 30 ppb/year
Frequency Deviation	< 100 ppb
Warm-up Time	1 h

Note: The specifications can be warranted only when the instrument has been warmed up for 1 hour.

Notices

After the OCXO module is installed, power on and start up the RF signal generator. During the start-up process, the RF signal generator will recognize the OCXO module automatically and be synchronized with the OCXO module. Note that at this point, external sync signal cannot be connected to the RF signal generator.

Press **Syst** → **Information** → **System Info**; if the instrument interface shows that the OCXO-B08 option is activated, the OCXO module and RF signal generator are successfully synchronized; otherwise, the synchronization fails.



CAUTION

After the OCXO module is installed, the OCXO module will still be working if you only turn off the power key at the front panel without cutting off the AC power supply at the rear panel. Therefore, please remove the AC power plug when you will not use the RF signal generator for a long period of time.