

DS5200/DS5112/DS5103

Source Generator

DS5200 QAM Source Generator

Overview

DS5200 is the ideal return path generator for HFC system installation and maintenance.

Key Features

- Wide frequency covers return path
- Large level dynamic range
- Multi-function module: RF, Pulse, Sweep
- Parameter setup memory

Specifications

Frequency	
Range	CW: 5 MHz ~ 120 MHz Digital Signal: 5 MHz (Left Edge Frequency) ~120 MHz (Center Frequency)
Accuracy	±2 ppm
Resolution	10 kHz
Level	
Range	0 ~ 60 dBmV
Accuracy	CW: ±1.5 dB Digital Signal: ±2.0 dB
Resolution	1.0 dB
Output Impedance	75 Ω
VSWR	<2.0

Spectrum Purity	
Harmonic Restraint Ratio	≤-40 dBc
Non Harmonic Stray	≤-40 dBc
Phase Noise	(At 50 MHz CW) 85 dBc @10 kHz 105 dBc @ 100 kHz
Modulation Signal	
Type	QPSK, 16/64/256 QAM
SR	1 MS/s ~ 7 MS/s
BW	1.25 MHz ~ 8.75 MHz
Roll Off	α=0.25
MER	>36.0 dB
BER	<1 E - 9 Errors
FEC	RS (204, 188)

Frequency Sweep	
Range	5 MHz ~ 120 MHz (CW)
Step	10 kHz ~ 1 MHz
Frequency Interval	10 ms
Level Flatness	<2.0 dB
Others	
Advance Setup	5
Communication Port	RS 232 C
Working Temperature	-20 °C ~ 50 °C
Dimension	218 mm × 95 mm × 49 mm
Weight	800 g
Working time	>4 Hours



DS5112 HFC Return Path Source Generator

Overview

DS5112 is an ideal HFC return path generator with frequency range of 5 MHz ~ 65 MHz. It offers continuous adjustment of the amplitude, advanced DDS technique and high speed D/A chip.

DS5112 also has other characteristics such as small dimension, light weight, concise interface, background light, portable and LCD display.

Key Features

- Advanced DDS technique and high-speed D/A chip
- Automatic temperature supplemental circuit and output protect module
- Small dimension, light weight

Specifications

Frequency Range	5 MHz ~ 65 MHz
Frequency Accuracy	±20 × 10 ⁻⁶
Frequency Resolution	100 kHz
Maximum Output Level	110 dBμV
Maximum Output Attenuation	30 dB / 1 dB step

Output Level Accuracy	< ±2 dB
Output Impedance	75 Ω / BNC
Battery	2 Ah AA Ni-MH battery
Working Time	> 4.5 Hours



DS5103 Two Frequency Points



Key Features

- Two frequencies output simultaneously
- Output level is adjustable.
- Small dimension, light weight

Specifications

Output Frequency	20 MHz / 40 MHz
output Level	90 dBμV ~ 105 dBμV (Adjustable)
Battery	2 Ah AA Ni-MH battery
Working Time	> 3 Hours