

## **FEATURES**

- Has a frequency range of 34.5mhz -4400mhz
- Output power range of 30dbm - 0dbm
- Continuous wave signal without any modulation
- The built-in electronic attenuator of the rational modes
- Downloadable software available for smartphones and tablets with android 4.0 from google play store
- 50Ω impedance

# RS PRO ISG LF44 Function Generator USB 2.0

**RS Stock No.: 123-3580** 



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.



### **Product Description**

From RS PRO, comes a high quality and great value signal generator. This pocket-sized generator is USB 2.0 interface compatible which can be used with either tablets or smartphones. Packed with an array of features, this signal generator is an excellent solution to generating electronic signals

### General Specifications

Model Number	ISG LF44	
Waveform Types	Repeating or non-repeating waveforms	
Display Type	640 x 480 RGB colour LCD	
Frequency Range (Square, Pulse and Arbitrary Waveform)	34.5MHz to 4400MHz	
Time Base Accuracy	within ±50kHz (frequency span : 0.3GHz ~ 2.6GHz, 20 ±5°C)	
Input Impedance	50ΜΩ	
Output Impedance	50Ω	
FM Modulation	Yes	
Amplitude Modulation	Yes	
Mode Control	Fixed Frequency / Single Sweep / CW Sweep / Hopping / Power Sweep	
Interface Type	USB 2.0	
USB Connector Type	Mini B	
Supported OS	Windows/Linux/Mac/Android	
Includes	USB cable, CD ROM with ISG software, User manual, Primary RF software	
Applications	Education, Training, Fourier theory investigation, Motherboard circuit measurement, Scalar network analyser, Remote controller maintenance	



### **Frequency Characteristics**

Range	Resolution	Accuracy
34.5 MHz to 4.4 GHz	10kHz	± 100 Hz at 100MHz

### Phase Noise

Carrier Frequency	fc = 1.0 GHz
At 10kHz Offset Frequency at 10kHz Offset Frequency	
At 100kHz Offset Frequency < -107dBc/Hz, typical -110dBc/Hz	

# Sine Wave Characteristics2ND HARMONICS (0 dB Attenuation) $\leq \leq \leq -15 dBc$ , typical 34.5MHz~2.0 GHz; -10 dBc,<br/>typical 2.0GHz~3.0 GHz; -25 dBc, typical<br/>3.0GHz~4.4GHz3rd HARMONICS (0 dB Attenuation) $\leq \leq -5 dBc$ , typical 34.5 MHz~2 GHz; -20 dBc, typical<br/>2.0 GHz~3.0 Ghz; -40 dBc, typical 3.0 GHz~4.4 GHz

### **Frequency Specifications**

Range	34.5MHz to 4.4GHz	
Internal Reference Frequency	25 MHz, aging ±1 ppm at first year	
Accuracy (0dBm Output Level) ±100 Hz at 100MHz		
Output Flatness (0dBm Output Level)	-1dBm to 3.5dBm, typical	
Frequency Offset	-50 kHz to 50 kHz in 10 kHz steps	
Frequency Resolution	10kHz	
Output Isolation	≦-75dBc , Output Control On/Off	
Step Dwell	≦1000ms in 1ms steps	



### **Electrical Specifications**

Supply Voltage	5V Nominal	
Current Consumption	200mA	
RF Connector Type	N-type Male	
Impedance	50Ohm Nominal	
Output VSWR	<1.5 : 1 , Output Level @ -30dBm	
Maximum Permissible Dc Voltage	±25V	
Maximum Reverse Power	+30dBm (1W)	
Spurious Related To Resolution Settings	$\leq \leq \geq$ -30 dBc, typical, Resolution < 1MHz ; -65 dBc, typical, Resolution 1MHz	
Spurious Related To The Fundamental Output	$\leq$ -60 dBc, typical	

### **Mechanical Specifications**

Dimensions	29.5 (Dia.) x 102.4mm
Width	30mm
Diameter	29.5mm
Height	102.4mm
Weight	100g

Operation Environment Specifications	
Operating Temperature Range	5°C to 45°C
Operating remperature Range	5 C 10 45 C

### Approvals

Compliance/Certifications	CE
Electromagnetic Compatibility	EN 55011 class A, EN 61326-1 (industrial environment), EN 61326-2-1, EN 61000-4-2, EN61000- 4-3, EN 61000-4-11

# **Function Generators & Counters**









		Specificatio	ons subject to change without notice
ORDERING INFO	PRMATION	FREE DOWN	LOAD
ISA-730 ISG-LF44	3GHz Spectrum Analyzer RF Signal Generator	PC Software	Primary RF, Remote Control Software, ISG Java program
ACCESSORIES			
	Manual x1, CD-ROM with User Manual x1, Power Cord x1 x1, CD-ROM with ISG software, Primary RF Software and User Manual x1		

RS Components – Buy this product from https://uk.rs-online.com/