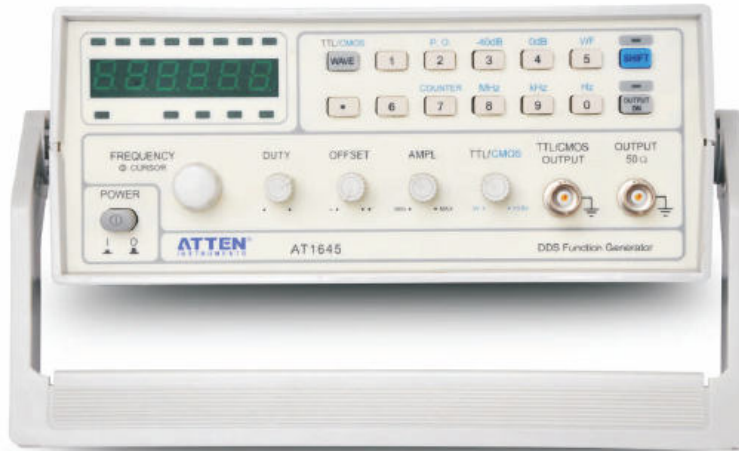


DDS Function Generator

AT1645(3MHz)



INTRODUCTION

This series uses the latest Direct Digital synthesis (DDS) technology to generate stable, high resolution output frequency. The DDS technology solves several problems encountered in traditional function generators like the Temperature change inside the generator greatly affects the components characteristics which lead to output frequency change. The results are poor accuracy and stability etc.

AT1645 is the ideal equipment of electronic engineers, laboratories, production lines and the teaching and research labs.

MAIN FEATURES

Performance

High resolution using DDS technology

High frequency accuracy : ± 20 ppm

Low distortion: < 0.6%

High resolution: 100 MHz

Interface

Frequency output

TTL/CMOS Output

Features

Digital user interface with 6-digit LED display

Various output waveforms: Sine, Square and Triangle

TTL/CMOS output

Amplitude control

-40dB attenuation

Duty control

Variable DC level control

Output On/Off control

Voltage display

Output Power

Counter

SPECIFICATIONS		
Frequency	Sine wave	0.1Hz ~ 3MHz
	Square wave	0.1Hz ~ 2MHz (Valid Range)
	Triangle wave	0.1Hz ~ 1MHz (Valid Range)
	Resolution	100mHz
	Frequency stability	$\pm 1 \times 10^{-6}$
	Frequency error	$\pm 5 \times 10^{-6}$
Square Wave	Distortion	<0.6% (Foundation frequency: 1kHz)
Triangle Wave	Linearity	$\geq 98\%$, 100mHz~100kHz; 95%, 100kHz~1MHz
Square Wave	Rising & falling time	<30ns
TTL/CMOS	Amplitude	≥ 3 Vp-p
	Fan Out	20TTL Load
	CMOS level	3.5~13.5 Vp-p
Options	Power Output	Output Power 10W (4Load)
		Output Wave: sine wave
	Counter	Frequency range: 20Hz~40kHz
		Measure frequency range: 1Hz~40MHz
	Measure Voltage range 0.2V	
	Error range: $\pm 1 \times 10^{-4}$	
Others	Supply voltage	AC 220V $\pm 10\%$, 50Hz $\pm 5\%$ (Line voltage Setting is factory installed)
	Dimensions	265(W)x110(H)x300(D)
	Weight	About 1.5kg

Complete set of instrument and auxiliary	
1.	DDS Function generator -1 set
2.	Signal output cable - 1pcs
3.	Power output cable - 1pcs (Chose match)
4.	Power cable - 1pc
5.	User's manual - 1book