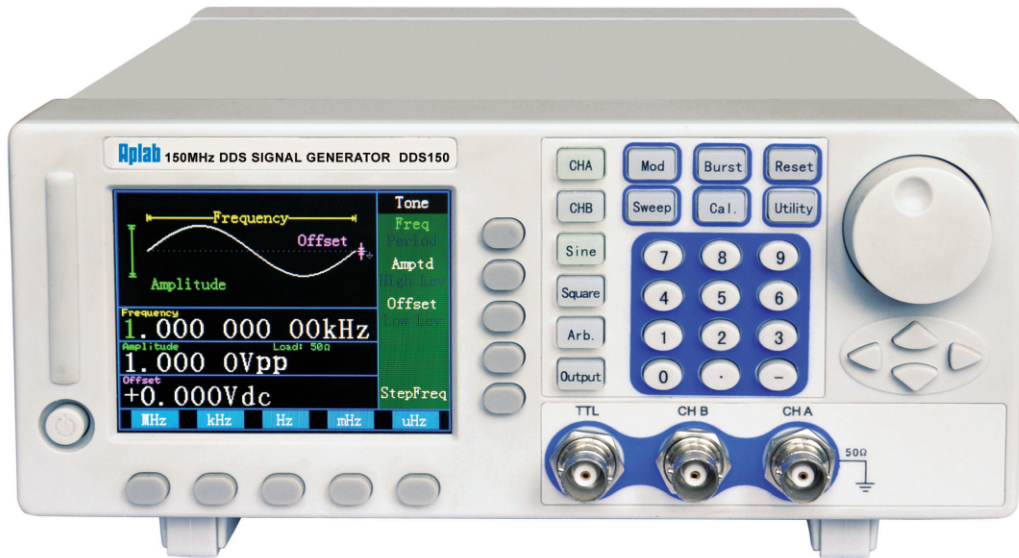


## 150MHz DDS Signal Generator



### Features

- 150MHz Maximum Frequency
- 1 ppm High Accuracy, Less Distortion
- Double Independent Outputs
- AM, FM, FSK, PSK Modulation
- User can set accurate pulse width, burst signal as numbers
- USB Device, RS-232

### Technical Specifications

<b>CH A</b>	
<b>Frequency</b>	
Range	Sine : 1 $\mu$ Hz ~ 150MHz Square : 1 $\mu$ Hz - 80MHz.
Resolution	1 $\mu$ Hz (Carrier Frequency $\leq$ 80MHz) 1Hz (Carrier Frequency $>$ 80MHz).
Accuracy	$\pm$ 1 ppm, Frequency $>$ 1.0 KHz. $\pm$ 50 ppm, Frequency $<$ 1.0KHz.
<b>Sine Output Level</b>	
Range	-127dBm ~ +13dBm (-127dBm ~ -117dBm typical).
Resolution	0.1dB.
Accuracy	Setting $\pm$ 1dBm (Output level $\geq$ -105dBm). Setting $\pm$ 2dBm (Output level $\geq$ -117dBm).
Stationary Wave Ratio (SWR)	$<$ 1%.
<b>Sine Spectrum Purity</b>	
Harmonic	$<$ -30dBc.
Non-Harmonic	$<$ -40dBc.
Remain Modulating Frequency	$<$ 100Hz (BW : 0.3 ~ 3KHz, RMS $<$ 110MHz).
<b>Square</b>	
Rise / Fall Edge Time	$\leq$ 15ns.
Overshoot	$\leq$ 5%.

<b>Modulation</b>	
Type	AM, FM, FSK, PSK
External Modulation Input	Voltage Range : $\pm 2.5V$ , Frequency : DC to 10KHz.
<b>Frequency Sweep</b>	
Sweep Rate	1 ms ~ 800s Linear (Carrier $\leq$ 80MHz). 100ms ~ 800 s Logrithm (Carrier $\leq$ 80MHz).
Sweep Range	100 $\mu$ Hz ~ 150MHz.
Step Time	10 ms ~ 800s (Carrier > 80MHz)
<b>Burst</b>	
Burst Count	1 ~ 10000 cycles
Internal	0.1ms ~ 800s.
<b>CH B</b>	
<b>Frequency</b>	
Range	1 $\mu$ Hz ~ 10MHz.
Resolution	1 $\mu$ Hz.
Accuracy	$\pm 1$ ppm, Frequency $\geq$ 1.0KHz $\pm 50$ ppm, Frequency < 1.0KHz.
<b>Waveform</b>	
Type	Sine, Square, Ramp, Pulse, Sinc, Exp, Noise, DC
Square	Edge Time : $\leq 50ns$ . Duty Cycle : 0.01% ~ 99.99%
Pulse	Edge Time : $\leq 50ns$ . Pulse Width : 200ns ~ 20s.
Ramp	Symmetry : 0.0% ~ 100.0%.
<b>Output</b>	
Amplitude	1mVpp to 10Vpp (50 ohms), 2mVpp to 20Vpp (High Z).
Offset	$\pm 5Vpk$ ac+dc (50 ohms), $\pm 10Vpk$ ac + dc (High Z).
<b>General Characteristics</b>	
Power	AC 220 (1 $\pm 10\%$ )V, 50 (1 $\pm 10\%$ )Hz, <40VA.
Dimension	254 x 103 x 374 mm.
Weight	3.8 Kg. approx.
<b>Standard Accessories</b>	
Power Cord	1 No.
BNC Testing Cable	1 No.
CD (Software + User's Guide)	1 No..

WE PURSUE A POLICY OF CONTINUOUS DEVELOPMENT AND PRODUCT IMPROVEMENT. THUS THE SPECIFICATIONS IN THIS DOCUMENT AND THE LOCATION OF CONTROLS ON THE FRONT PANEL MAY BE CHANGED WITHOUT NOTICE.

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