



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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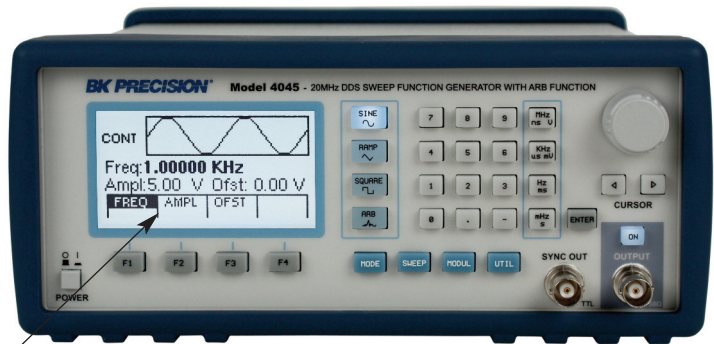


## Data Sheet

# 20MHz DDS Sweep Function Generator with Arb Function

## Model 4045

The model 4045 DDS Function Generator is a must-have for anyone needing a low cost, full featured direct digital synthesis (DDS) function generator with arbitrary waveform capabilities. The 4045 has a menu-driven front panel interface that includes a large, easy-to-read graphical LCD display. Waveform parameter changes and data entry can be made using the rotary knob or via the built-in USB interface. The unit generates superb quality waveforms with high signal precision and stability. It provides sine & square wave outputs over the frequency range from 0.1 Hz to 20 MHz in one extended range (triangle/ramped wave outputs to 2MHz). Arbitrary waveforms can be edited from scratch or by modifying standard waveforms. A full range of triggering capabilities is available, including internal-external trigger source, gated and burst modes of operation.



Graphical LCD display



USB connection

- 20MHz Frequency Range (sine & square only)
- Sine, Square & Triangle waveforms
- Arbitrary waveforms to 1,000 points
- Clean, precise DDS waveform generation
- Modulation in both AM & FM
- Lin or Log Sweep Function
- Adjustable Duty Cycle
- Adjustable DC Offset
- Bright informative LCD
- USB Interface
- Free downloadable software



Model	4045
Frequency Range	0.1Hz to 20MHz (sine & square wave only)
Waveforms	Sine, Square, Triangle, Arbitrary, Ramp, Pulse
Amplitude	10V p-p into 50Ω
Attenuation	-20dB + 1dB
Offset	± 4.5V into 50 Ω (amplitude dependent)
Distortion (for sine wave at 5 Vp-p into 50 Ω)	DC-20KHz = -55 dBc
Square Rise/Fall Time	< 18 ns (10% to 90%) into 50 Ω
Flatness (for sine wave at 5 Vp-p into 50 Ω)	0.5 dB at 1MHz (1 dB to 20 MHz)
Power Source	90V-264V, 48-66Hz / 30 VA max
Dimensions (WxHxD)	8.4 x 3.5 x 8.3" (213 x 88 x 210 mm)
Weight	5.5 lbs, 2.5 Kg (approx.)
<b>Three Year Warranty</b>	
Included Accessories	Manual, software CD, USB cable, power cord, test report and certificate of calibration