

CA1645 SERIES DDS FUNCTION GENERATOR



CA1645P series

DDS TECHNOLOGY / LOW COST

Features:

- DDS technology used, more accurate output
- Multi waveforms: Sine/Square/Triangle, etc.
- With 6 digit frequency counter (up to 60MHz)
- Sine wave distortion less than 0.6%
- Numerical keypad for setting frequency
- Minimum output frequency as low as 0.1Hz
- DC offset: -10V to +10V
- Power output (CA1645P series only)
- Output on/off switch
- High performance, low cost

Specifications

		CA1645-03	CA1645P-03	CA1645-05	CA1645P-05	CA1645-08	CA1645P-08
MAIN	Output Waveform	Sine wave, Square wave, Triangle wave					
	Frequency Stability	+/-1x10 ⁻⁶					
	Frequency Error	+/-5x10 ⁻⁶					
	Output Impedance	50 Ohm +/-10%					
	Output Amplitude	20Vpp (no load)					
	Output Attenuation	0dB, -40dB					
	DC Offset	-10V ~ +10V (no load)					
	Display	6 digit LED, frequency/voltage display switchable					
SINE WAVE	Output Frequency	0.1Hz ~ 3MHz	0.1Hz ~ 3MHz	0.1Hz ~ 5MHz	0.1Hz ~ 5MHz	0.1Hz ~ 8MHz	0.1Hz ~ 8MHz
	Distortion	< 0.6% (1kHz)					
SQUARE WAVE	Output Frequency	0.1Hz ~ 2MHz					
	Duty Cycle	20% ~ 80%					
	Rise or fall time	< 30nS					
TRIANGLE WAVE	Output Frequency	0.1Hz ~ 1MHz					
	Linearity	0.1Hz ~ 100kHz: ≥98%; 100kHz ~ 1MHz: ≥95%					
	Level	≥ 3 Vpp					
TTL/CMOS OUTPUT	Fan Out	20 TTL load					
	CMOS Level	3.5 ~ 13.5 Vpp					
	Measurement Range	20Hz ~ 60MHz					
FREQ. COUNTER	Input Voltage	0.2V ~ 20V					
	Error	+/-1x10 ⁻⁴					
	Output Power	none	≥10W (4 Ohm load)	none	≥10W (4 Ohm load)	none	≥10W (4 Ohm load)
POWER OUTPUT	Output Waveform	Sine wave		Sine Wave		Sine Wave	
	POWER SOURCE	AC220V +/-10%, 50Hz or AC120V					