

SG1634N, SG1638N, SG1640N & SG1642N



Features

- .Multi waveforms: sine, triangle, square, pulse and etc.
- .50Hz sine output
- .TTL output and single output(SG1634N & SG1638N)
- .DC offset and symmetry continuously adjustable
- .VCF input
- .Built-in 6 digits counter up to 15MHz (SG1638N & SG1642N)
- .Power output function (SG1642N)
- .Microphone input(SG1642N)
- .TTL and CMOS outputs (SG1640N)
- .Sweep outputs (SG1640N)



SG1640N



SG1634N



SG1638N



SG1642N

Technical Data

Main output	Output frequency	0.2Hz ~ 2MHz		
	Output waveforms	Sine, Square, Triangle, Ramp, Pulse and etc.		
	Output impedance	50 Ω ±10%		
	Output amplitude	≥20Vp-p (1MΩ Load); ≥10Vp-p (50 Ω Load)		
	Output attenuation	0dB / 20dB / 40dB		
	Attenuation accuracy	±3%		
	DC offset	0~±10V (1MΩ Load); 0~±5V (50 Ω Load)		
	Duty cycle	20% ~ 80%		
	Sine wave	Distortion factor	≤2% (≤100kHz)	
		Frequency response	±0.5dB (≤100kHz) ±1dB (>100kHz)	
Square wave	Rise or fall time	100ns (5Vp-p 1MHz)		
Triangle wave	Linear	98% (≤100kHz)	95% (>100kHz)	
		Rise or fall time	≤50ns	
TTL output	Low level	≤0.4V		
	High level	≥3.5V		
	Impedance	100 Ω		
VCF	Input voltage	0~5V		
	Input impedance	10k Ω ±10%		
Counter (SG1638N, SG1640N & SG1642N)	Display	6 digits		
	Frequency range	1Hz ~ 15MHz		
	Input impedance	10k Ω ±10%		
	Sensitivity	200mVrms		
	Gate time	10s (≤8kHz)	1s (8kHz to 200kHz)	0.1s (200kHz to 15MHz)
	Resolution	0.1Hz/1Hz		
	Accuracy	≤1% ±1 digit		
Power output (SG1642N)	Max. input voltage	50Vp-p		
	Output amplitude	20Vp-p (20 Ω)	10Vp-p (4 Ω)	
	Output impedance	4 Ω		
CMOS output (SG1640N)	Protection	Short circuit;	Resist input voltage: ±35V(1 min)	
	Rise or fall time	≤50ns		
	Low level	≤0.6V		
	High level	4V~15V		
Sweep (SG1640N)	Input impedance	2K Ω		
	Sweep mode	Lin./log		
	Sweep time	10ms~5s		
Power supply	Sweep rate	100:1		
		110~127 VAC±10%, 220~240VAC±10%, 50Hz±2Hz / 60Hz±2Hz		
Dimensions	225(W) × 105(H) × 195(D)mm			
Weight	1 kg / 3 kg (SG1642N)			