

# FUNCTION GENERATOR / COUNTER

## SG1642A/B/C

### Features

- . Multi waveform: Sine, Triangle, Square, Ramp, Pulse, TTL and CMOS
- . Various output mode CW, Function, INT/EXT Sweep, AM, FM, FSK, Power, Single
- . DC Offset, Symmetry, Amplitude continuously adjustable
- . Built-in counter with INT (5digits) /EXT (8digits) up to 100MHz / equal accurate
- . High reliability MTBF>10000h
- . Full output protection
- . Output amplitude display peak-peak and RMS
- . Interface option RS-232 or RS-485



SG1642C

Technical Data		SG1642A	SG1642B	SP1642C
Main output	Output frequency	0.2Hz ~ 3MHz	0.2Hz ~ 10MHz	0.2Hz ~ 20MHz
	Output waveforms	Sine wave, Square wave, Triangle wave, Ramp wave and etc.		
	Output impedance	50 Ω ±10%		
	Output amplitude	10Vp-p ±10% (50 Ω) 20Vp-p ±10% (1M Ω)		
	Output attenuation	0dB / 20dB / 40dB/60dB		
	DC offset	-5V ~ +5V ±10% (50 Ω) -10V ~ +10V ±10% (1M Ω)		
	Symmetry	20% ~ 80%		
Sine wave	Distortion factor	10Hz ~ 100kHz ≤ 0.8%		
Triangle wave	Linear	90%		
Square wave	Rise or fall time	20ns		
TTL output	Level	Low ≤ 0.8V High ≥ 1.8V		
CMOS output	Level	3Vp-p ~ 15p-p adjustable		
VCF	Input voltage	0V ~ 2V		
	Input impedance	100K Ω ±10%		
Sweep	Sweep mode	Lin./Log.		
	Sweep rate	100:1 ratio max. and adjustable		
	Sweep time	10ms ~ 5s ±10%		
Amplitude modulation	Depth	0 ~ 100%		
	MOD. frequency	1kHz		
	EXT. impedance	100K Ω ±10%		
Frequency modulation	EXT. sensitivity	0V ~ 2V		
	Deviation	0 ~ 5%		
	MOD. frequency	1kHz		
Counter	EXT. impedance	100K Ω ±10%		
	EXT. sensitivity	0V ~ 2V		
	Display	5 digits (INT .) 8 digits (EXT .)		
Single (option)	Frequency range	0.2Hz ~ 3MHz	0.2Hz ~ 10MHz	0.2Hz ~ 20MHz
	Input impedance	500k Ω/30pF		
	Time base	10MHz		
	Accuracy	Time base accuracy ± count		
	Attenuator	-20dB		
	Stability	5 x 10 <sup>-5</sup> /d		
	Output waveform	Sine		
Power (option)	Output frequency	50Hz		
	Output power	10W (4 Ω load)		
Power supply	Output waveform	Sine		
	Output frequency	20Hz ~ 40kHz		
Dimensions (W x H x D)	110~127 VAC ±10%, 220~240VAC ±10%, 50Hz ±2Hz / 60Hz ±2Hz			
Weight	240 x 80 x 220mm			
	1.75 kg			