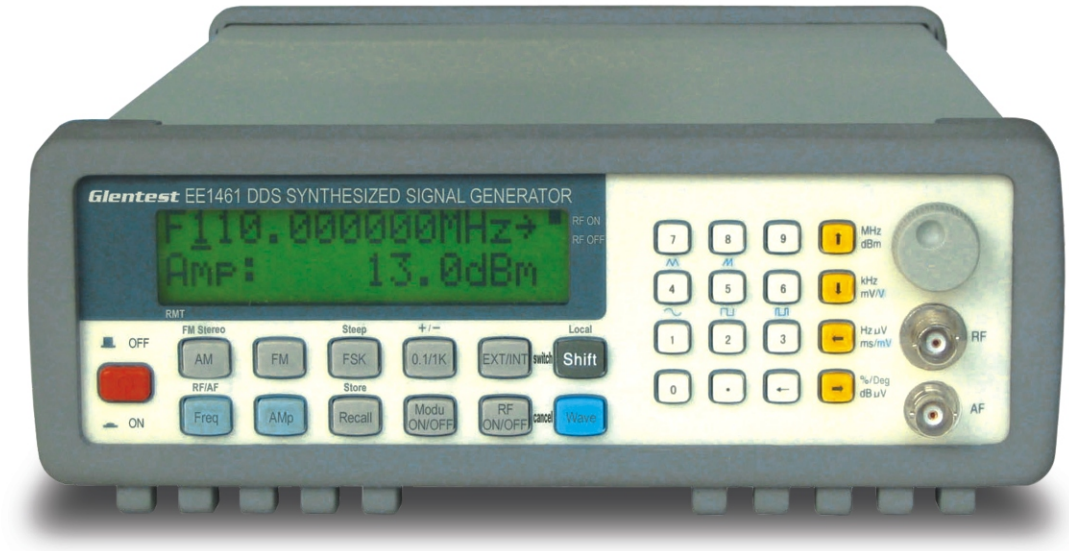
EE1461 SERIES DDS RF SIGNAL GENERATOR



EE1461 series

Features:

- DDS technology used, more accurate output
- Frequency range up to 300MHz
- Frequency resolution 1Hz
- Level range -127dB ~ +13dB
- Level resolution 0.1dB
- Spectral purity: harmonics: <-30dBc, nonharmonics and subharmonics <-40dBc
- Modulation: AM, FM, FSK
- Stepping sweep function, hold time adjustable
- Independent audio signal output(optional)
- FM stereo (optional)
- Convenient operation with numerical keypad and electronic rotary encoder input
- Store/recall function, up to 10 sets of memory by panel setting, nonvolatile memory
- 16 character/two line dot-matrix LCD display with backlight
- RS232 or IEEE488 interface (optional)
- Reliable performance with low cost, ideal for education, manufacturing plant, and other general RF test

Specifications

EE1461A / EE1461B / EE1461C / EE1461D / EE1461E		
FREQUENCY	Range	100kHz~65MHz (EE1461A), 100kHz~110MHz(EE1461B),
		100kHz~150MHz(EE1461C), 100kHz~200MHz(EE1461D),
		100kHz~300MHz(EE1461E)
	Resolution	1Hz
	Accuracy and Stability	Same as reference frequency
	Switching Speed	< 100ms
	(within 100Hz)	
REFERENCE	Int. Reference Output	Frequency: TCXO 10.000MHz
FREQUENCY		Temperature effect: +/-2.5ppm (0℃~40℃)
		Frequency accuracy: +/-25ppm
		Frequency stability: +/-5ppm/day
	Ext. Reference Input	Frequency: 10MHz
		Input level: 0.3Vrms~1Vrms (50Ohm load)
SPECTRAL	Harmonics	< -30dBc (output level≤+4dBm, EE1461A and EE1461B)
PURITY		< -15dBc (EE1461C, EE1461D and EE1461E)
	Nonharmonics	<-40dBc (output level≤+4dBm,≥5kHz from carrier)
	Subharmonics	<-40dBc (output level≤+4dBm)
	Residual FM	< 100Hz (0.3~3kHz rms, <110MHz)
OUTPUT LEVEL	Range	-117dBm(0.3μVrms)~+13dBm(1Vrms),
		(over-ranging lowest to -127dBm/0.1μVrms,
		max. +10dBm when >200MHz)
	Resolution	0.1dB
	Level Flatness	+/-1dB (output level at +4dBm, <400kHz typical)
	Level Accuracy	+/-2dB (<-105dBm typical)
	SWR	<1.5 (f>300kHz, level<-6dBm typical)
	Output Impedance	50 Ohm
AM	RF Frequency	≥1.5MHz(without guarantee of specs when <1.5MHz)
	Modulation Depth	0~70% (50% when output level≤+4dBm,≥110MHz,
		set value up to 100%)
	Resolution	1% (mod. depth≥10%), 0.1%(mod. depth<10%)
	Accuracy	+/-7% of setting value +/-1.5% (1kHz rate, depth≤30%)

(continued)		
	Modulation Rate	Internal: 1kHz or 400Hz
		External: 20Hz~10kHz (3dB bandwidth, output level +4dBm,
		f>65MHz typical)
	Distortion	< 5% (at 1kHz rate, depth 30%, 0.3~3kHz BW typical)
	Residual AM	< 0.1%rms (0.05~15kHz BW typical)
FM	Max. Peak Deviation	0~100kHz
	Resolution	100Hz
	Accuracy	+/-5% of setting value +/-50Hz(at 1kHz rate, peak deviation>5kHz)
	Modulation Rate	Internal: 1kHz or 400Hz
	Distortion	< 2% (at 1kHz rate,0.3~3kHz BW typical
		when peak deviation>10kHz)
FSK	Mode	External TTL level
		FSK modulation in following bands
		100kHz~1.5MHz (FSK rate < 25kHz)
		1.5MHz~20MHz (FSK rate < 25kHz)
		20MHz~65MHz (FSK rate < 50kHz)
		65MHz~300MHz (FSK rate < 2kHz)
SWEEP	Sweep Time	10ms~1000ms, in 10ms step
	Sweep Ranges	0.1MHz~65MHz, 65MHz~110MHz,
		110MHz~200MHz, 200MHz~300MHz
MOD. SOURCE	Internal	Input impedance: 600 Ohm
		Output rate: 1kHz or 400Hz
		Output level: 1Vpeak
		Audio signal output: 1Hz~1MHz (optional)
	External	Input level: 0~1Vpeak
INTERFACE		RS-232 or IEEE488 (optional)
GENERAL	Power Source	110V/220V +/-10%, 50/60Hz
	Power Consumption	30W max.
	Dimension	240 x 363 x 90mm
	Net Weight	3 Kgs
	Operating Temp.	0°C ~ 40℃
	Standard Accessories	Power cord (1 piece), BNC to BNC leads (1 piece)