Signal Generator

GA1484A/GA1484B



GA1484A/ GA1484B : 250kHz ~ 4.0GHz

Summary

GA1484 is a high end signal generator designed and manufactured to create high frequency and stable signals capable of testing your very best devices and designs. It offers industry-leading performance, features and low cost of ownership.

GA1484 generate the essential signals for parametric and functional testing of components and receivers. Frequency ranges extend from 250 kHz up to 4 GHz.

The performance of the signal generator is called the benchmark of similar products in the market and they can meet your demands for design and manufacturing. An ideal instrument from the educational labs to high-end R&D labs.

Features

- Modulation: AM, FM, Phase Modulation and Pulse
- Superior Phase Noise: <-95dBc/Hz@20kHz (Carrier wave 1GHz) GA1484A
 <-115dBc/Hz@20kHz (Carrier wave 1GHz) GA1484B
- Output Range :-127 ~ +13dBm





Technical Specification

Frequency				
Range	250kHz ~ 4.0GHz			
Resolution	0.1 Hz			

Internal F	Reference Oscillator			
		GA1484A	GA1484B	
	Stability	< ±1ppm	< ±0.1ppm	Temp. from 0 to 45°C
	Aging	< ±1ppm/year	< ±0.1ppm/year	
Time bas	e Reference Output			
	_	408411		
	Frequency	10MHz		
	Amplitude	>0.35Vrms		
EVT Dofe	Connector	BNC female, 50Ω		
EXT Refe	erence Input			
	Frequency	10 MHz		
	Amplitude	0.5 ~ 2Vrms		
	Connector	BNC female, 50Ω		
RF Outpu	ut			
	Power Range	-127 ~ +13dBm		
	Resolution	0.01 dB		
	Accuracy	< ±1 dB		-120dBm
				≤power≤+13dBm, Temp.
				From 20°C to 30°C, ALC
				ON
	VSWR	<1.8		power< 0dBm, typical
				value
Cunnatural	Connector	N type female, 50Ω		nominal value
Spectral	Purity	GA1484A	GA1484B	
	SSB Phase Noise	< -95dBc/Hz	< -115dBc/Hz	Typical value: Carrier
	COD I Hado I tolog	000007112	110000112	Frequency 1GHz; Offset
				20 kHz
	Residual FM(ON CW)	< 30 Hz peak	< 10 Hz peak	CW, Carrier frequency
	, ,	·	·	1GHz;
				Bandwidth from 0.3 to 3
				kHz
Others				
		22.15		
	Harmonics	<-30dBc		
	Non-harmonics	< -50dBc		
Amplitud	la Madulation			
Ampiituu	le Modulation			
	Temp. Range	0 to 100%		Temp. From 0 to
				45°C
	Resolution	0.1%		
	Rate	20 Hz to 20 kHz		
	Accuracy	< (set 5%+0.2%)		1 kHz modulation rate,
	-			

	Distortion	<2%		Output: 0dBm, 60% modulation depth (only GA1484A) / 80%modulation depth (only GA1484B) 1 kHz modulation rate, Output: 0dBm, 60% modulation depth (only GA1484A) / 80%modulation depth (only GA1484B)
Frequenc	y Modulation			
		GA1484A	GA1484B	
	Frequency Offset Range	20 Hz to 100 kHz		
	Resolution	< 1%		min1 Hz
	Frequency Modulation	20 Hz to 80 kHz		
	Accuracy	< (set 5%+0.2%)		1kHz modulation rate
	Distortion	< 1%	< 0.1%	1kHz modulation rate 50 kHz offset
	Frequency Offset Accuracy	< (Set 5%+200 Hz)		1kHz frequency rate, 50 kHz offset
	Carrier Frequency	< 200 Hz		Reference to carrier
	offset			frequency, external model
Phase Mo	dulation			
		GA1484A	GA1484B	
	Phase offset range	0 ~ 10rad		Modulation rate < 10 kHz
		0 ~ 5rad		Modulation between 10 kHz and 20 kHz
	Resolution	< 1%		
	Modulation Frequency	300 Hz to 20 kHz		
	Accuracy	< set 5%+ 0.2rad)		1 kHz modulation rate
	Distortion	< 1.5%	< 0.1%	1 kHz modulation rate, 5rad offset
Pulse Mo	dulation			
		GA1484A	GA1484B	

Pulse Modulation						
		GA1484A	(GA1484B		
C	n/off ratio	> 60 dB	> 80 dB			
R	Rise /fall time	< 60ns	< 50ns			
Р	ulse width	400ns to 1 s				
Р	ulse cycle	1us to 2 s				
Т	ime resolution	100ns				



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