

Synthesized RF Signal Generator

EE1482 / EE1482A



Specifications	EE1482	EE1482A
Frequency	1GHz	2GHz
Range	100KHz~1004KHz	100KHz~2002KHz
Resolution	1Hz	1Hz(<1000MHz) 2Hz(>1000MHz)
Accuracy	5x10-8	5x10-8
Switching speed	<150ms	<150ms
INT ref.oscillator	10MHz	10MHz
Aging rate	1x10-8/day	1x10-8/day
Accuracy	5x10-8	5x10-8
Output		
Range	-127+13dBm	-127+10dBm(<1000MHz) -127+7dBm(>1000MHz)
Resolution	0.1dB	0.1dB
Accuracy	±1dB(+4dBm/H)	±1dB(+4dBm,<1000MHz)±2dB(+4dBm,>1000MHz)
R.P.P	1W	1W
S.W.R	<1.5(<1000MHz, <0dBm)	<1.5(<1004MHz,<0dBm) <2(>1004MHz, <-6dBm)
Impedance	50Ω	50Ω
RF leakage	<3 U _v (<1004MHz 0dBm)	<3 U _v (<1004MHz 0dBm)
Spectral Purity		
Harmonics	<-30dBc	<-30dBc
Non-harmonics	-50~-60dBc	-50~-60dBc
Sub-harmonics		-40~50dBc
SSB phase noise	-114dBc/Hz(500MHz)	-114dBc/Hz(1000MHz)
Residual FM	10~20Hz	10~40Hz

Residual AM	<0.1%	<0.1%
AM modulation	0~70%	0~70%
Resolution	0.10%	0.10%
Accuracy	±7% of setting ±1.5%	±7% of setting ±1.5%
Distortion	2~3%	2~3%
Incidental FM		
INT modulation FM	1KHz 400Hz	1KHz 400Hz
EXT modulation FM	DC~25KHz	DC~25KHz
FM modulation		
Max peak deviation	50~100KHz	50~200KHz
Resolution	10/100KHz	10/100KHz
Accuracy	±7.5% of FM deviation±50Hz	±7.5% of FM deviation±100Hz
Distortion	<1%	<1%
Incidental FM		
INT modulation FM	1KHz~400Hz	1KHz~400Hz
EXT modulation FM	DC~50KHz	DC~50KHz
Phase modulation		
Max phase deviation	0~10rad	0~20rad
Resolution	0.1rad	0.1rad
Accuracy	±7.5% of setting ±0.05rad	±7.5% of setting ±0.05rad
Modulation distortion	<2%	<2%
Pulse modulation (optional)		
ON/OFF ratio	DC~10MHz(TTL level)	DC~10MHz(TTL level)
Rise/fall time	<15ns	<15ns
INT modulation FM		
EXT modulation FM	DC~10MHz	DC~10MHz
Remote programming		
Interface	GPIB	GPIB
Interface function		
Other		
Store/recall		
EMI standard		

Power supply	-220V,<100vA	-220V,<100vA
Operating temp	0~40 centigrade	0~40 centigrade
Size & weight	400x360x166mm	12.5kg
Features		
. Single-chip microcomputer controlled, Modular Design		
. ÷N.F Single Loop Syth		
. Advanced EPLD Based		
. $\Sigma - \Delta$ modulation technology		
. Fine Spectral Purity		
. More modulation Mode		
. Reverse Power Protection		
. GP-IB interface Optional		
. SMT assembled, compact structure		
. Self-diagnosis		
. Digital storage		
. High performance/price ratio, High reliability		