

Specifications

FREQUENCY	
Range:	
LS3081/2/4B:	9 kHz to 3GHz
LS6081/2/4B:	9 kHz to 6GHz
LS1291/2/4B:	9 kHz to 12GHz
Resolution:	0.001 Hz
Phase offset:	0.01 deg
Switching speed:	
Standard:	500 μ s
FS Option:	100 μ s

FREQUENCY REFERENCE	
Temp. Stability:	± 25 ppb max.
Aging:	± 3 ppm for 20 years
Warm up time:	30 min
Phase stability between channels:	+/-0.08ps, typical over 5 hours at 5GHz

AMPLITUDE ⁽¹⁾		
Max output power:		
Settable:	+20 dBm	
Calibrated:	+15 dBm	
Min output power:		
Settable:	-100 dBm	
Calibrated:	-80 dBm	
Resolution:	0.01 dB	
Power Mute:	-95 dBm	
Output Return Loss:	-10 dBm	
Accuracy (dB):	-50dBm to +15dBm	-90dBm to -50dBm
Up to 100MHz:	± 0.3 (typ.)	± 0.5 (typ.)
100MHz to 3GHz:	± 0.4 (typ.)	± 0.6 (typ.)
3GHz to 9GHz:	± 0.7 (typ.)	± 0.9 (typ.)
Above 9GHz:	± 1 (typ.)	± 1.5 (typ.)

PHASE NOISE (dBc/Hz)	
Measured @ 10kHz offset	
1 GHz:	-138 (typ.)
2 GHz:	-133 (typ.)
3 GHz:	-130 (typ.)
6 GHz:	-124 (typ.)
12 GHz:	-118 (typ.)

HARMONICS (dBc)	
Up to 100 MHz:	-30 dBc
100 MHz to 12 GHz:	-50 dBc ⁽²⁾

SUB-HARMONICS (dBc)	
6 to 12 GHz:	-55 dBm

NON-HARMONICS (dBc)	
Up to 12 GHz:	-90dBc (typ.) ^(3,4) -60dBc max. ⁽⁵⁾

MODULATION	
FREQUENCY MODULATION	
Maximum Deviation:	10 MHz
Resolution:	0.1% or 1 Hz (the greater)
Modulation Rate:	1 MHz
Resolution:	1 Hz

AMPLITUDE MODULATION ⁽⁶⁾	
AM Depth:	
Type:	Linear
Maximum settable:	90%
Resolution:	0.1% of depth
Modulation rate:	DC to 100 kHz

PHASE MODULATION	
Peak Deviation:	360 deg
Modulation Rate:	DC to 100 kHz

PULSE MODULATION (PLS OPTION)	
On/off ratio:	60 dB
Rise/fall time (10%-90%):	15ns (typ.)
Resolution:	6.4ns
Minimum Width:	32ns
Repetition frequency:	DC to 10 MHz

PATTERN MODULATION (PAT OPTION)	
Number of steps:	1 to 2048
Step Repetition:	1 to 65535
On/off time:	32 ns to 20 days

SWEEP	
Range:	Same as freq. range
Modes:	Frequency step, Amplitude step, List
Dwell time:	10 μ s to 1000 s

Resolution:	1 μ s
Number of points:	
List:	2 to 4,096
Step:	2 to 65,535
Step change:	Linear
Trigger:	Free run, External, Bus, Timer

INPUTS	
MODULATION INPUT	
Connector Type:	BNC
Input Impedance:	50 Ω
Max. input voltage:	± 1 V
Input damage level:	± 3.5 V
PULSE / TRIGGER INPUT	
Connector type:	BNC (per channel)
Input Impedance:	50 Ω
Input voltage:	TTL, CMOS compatible
Threshold:	1.5V
Damage level:	-0.42V or 5.42V

EXTERNAL REFERENCE INPUT	
Connector type:	BNC (per channel)
Input Impedance:	50 Ω
Waveform:	Sine or Square
Frequency:	10/100MHz
Power:	-3 dBm to +10 dBm
Absolute Max. Level:	+15 dBm
Locking Range:	± 2 ppm

OUTPUTS	
RF OUT	
Impedance:	50 Ω
Connector type:	SMA
Number of outputs:	
LS3081/6081/1291B:	1
LS3082/6082/1292B:	2
LS3084/6084/1294B:	4

REFERENCE OUT	
Impedance:	50 Ω
Connectors type:	2 x BNC
Frequency:	10 MHz or 100 MHz
Shape:	Sine
Power:	3 to 7 dBm

⁽¹⁾ Above 100kHz; ⁽²⁾ 750MHz to 900MHz -35dBc (typ.); ⁽³⁾ -60dBm max. @ 1GHz, 1.5GHz, 2.5GHz and 3GHz; ⁽⁴⁾ -75dBm max. @ -15dBm to +15dBm and $f > 6$ GHz; ⁽⁵⁾ Boundary spurs which may appear @ -100MHz to +100MHz offset from CW. ⁽⁶⁾ Specified for >100MHz.

LUCID SERIES
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Specifications

GENERAL	
Voltage Range:	90VAC to 264VAC
Frequency Range:	47Hz to 63Hz
Power Consumption:	100W
Display Type:	5", TFT capacitive touch screen
Interface:	
Host:	2 x front panel USB type A 1 x rear panel USB type A
Device: USB: LAN:	1 x rear panel USB type B 1 x rear panel 1000/100/10 BASE-T
Storage:	Removable SD card
Dimensions (W x H x D):	
Without feet	315 X 88 x 425 mm
With feet	315 X 102 x 425 mm
Weight:	
Without Package:	6.0 kg
Shipping Weight:	6.5 kg
Temperature:	
Operating:	0°C to +40°C
Storage:	-40°C to +70°C
Warm up time:	15 minutes
Humidity:	85% RH, non-condensing
Safety:	CE Marked, EC61010-1:2010
EMC:	IEC 61326-1:2013
Calibration:	2 years
Warranty:	3 year standard

ORDERING INFORMATION	
MODEL	DESCRIPTION
LS3081B	3GHz Single Channel RF Analog Signal Generator
LS3082B	3GHz Dual Channel RF Analog Signal Generator
LS3084B	3GHz Four Channel RF Analog Signal Generator
LS6081B:	6GHz Single Channel RF Analog Signal Generator
LS6082B	6GHz Dual Channel RF Analog Signal Generator
LS6084B	6GHz Four Channel RF Analog Signal Generator
LS1291B	12GHz Single Channel RF Analog Signal Generator
LS1292B	12GHz Dual Channel RF Analog Signal Generator
LS1294B	12GHz Four Channel RF Analog Signal Generator
OPTIONS	
PLS	Pulse Modulation
PAT	Pattern Modulation
ELP	Extended Low Power (-150dBc)
EPR	Extended Power Range (-130dBc to +27dB)
FS	Fast Switching
EMU	Emulator pack for Keysight, R&S, Anapico & Holzworth
W-Rack	Rack mount kit

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