

Electrical Specifications

Frequency	0.5 - 20 GHz	
Frequency Step Size	1 KHz	
Frequency Stability and Accuracy		
External Ref.	Same as input	
Internal Ref.	± 0.5 PPM (Over Temp Range)	
Aging (after 2 months)	± 1.0 PPM max per year @ 25°C	
Adjustability	10 years	
Phase noise (dBc/Hz)	Typ. @	500 MHz 20 GHz
L(100 Hz)		-95 -65
L(1 kHz)		-110 -75
L(10 kHz)		-115 -80
L(100 kHz)		-115 -85
L(1 MHz)		-140 -110
L(10 MHz)		-150 -120
Spurious (max)		-60 dBc
Harmonics / Sub-Harmonics (typ.)		-15 / -15 dBc
DC Power		
+5.5 VDC ± 0.5 VDC		1 A
Power Out (nom. / min. @ 25°C)	+16 / +12 dBm	
Power Variation (typ.)		± 3 dB
Load VSWR (max.)		2:1
Frequency Control		RS-485
Acquisition Time (typ.)		< 5 ms
Phase-Lock Indicator (LD)	Open Collector (note 9)	

Reference Specifications

Input Reference Frequency	10 MHz
Input Level	0 dBm ± 3 dBm

Environment Specifications

Operating Temp. Range (surface)	0°C to 60°C (note 8)
Storage Temp. Range	-40°C to 85°C
Relative Humidity (non-condensing)	90%RH @ 40°C
Shock	30G / 10 ms
Vibration	4G / 20 Hz - 20 kHz

