

Features

- PLL LOOP Bandwidth as low as ≤1Hz
- Better additional short-term stability,up to 1.0E-13/1s
- Ultra low phase noise ≤-175dBc/Hz@10kHz

Applications

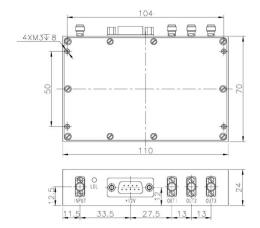
- Frequency standards and sources
- Measuring and calibration equipment
- Navigation

Technical Specifications

Standard Frequency	50 MHz			
Additional short-term stability	≤1×10 ⁻¹³ /1s			
Phase Noise (dBc/Hz,free-running)	Option: S	Option: H	Option: L	Option: U
10 Hz	-100	-105	-110	-113
100 Hz	-130	-135	-140	-143
1 KHz	-160	-163	-165	-168
10 KHz	-170	-172	-174	-176
100 KHz	-175	-175	-178	-178
Aging (after 30 days of continuous operation)	≤ 5×10 ⁻⁷ / year			
Input voltage range	12 VDC ± 5%			
Power consumption (at 25°C)	7W / 4W			
Warm up time (at 25°C to 2×10 ⁻⁷)	≤ 5 min			
Input External Reference				
Frequency range	10MHz ±2Hz (Option: 5 MHz)			
Power	10 ±3 dBm			
PLL LOOP Bandwidth	1Hz ~100Hz			
Output specifications				
Wave form	Sine wave			
Number of outputs	3			
Port to port isolation	≥ 50 dB			
Power	10 ± 3 dBm			
Harmonics	≤ -30 dBc			
Spurious	≤ -80 dBc			
Frequency stability vs Temperature (-40°C to 70°C)	≤ 2×10 ⁻⁷			
Load	50 Ω ± 5%			
g sensitivity	≤ 5×10 ⁻¹⁰ / g			
Vibration	MIL-STD-202G			
Size (L×W×H)	110×70×24mm³			



Outline drawing and Electrical connections (mm)



INPUT: 10MHz (SMA-F)
OUT1: 60MHz (SMA-F)
OUT2: 60MHz (SMA-F)
OUT3: 60MHz (SMA-F)
LDL: Lock Lamp
J3/1. LD (TTL Level:L- lock,H-unlock)
J3/2. Ground
J3/3. Ground
J3/4. NC
J3/5. Vc
J3/6. NC
J3/7. +12V Power supply

J3/8. NC J3/9. Vref

