

10MHz Oscillator

850-2150 MHz
Operating frequency range



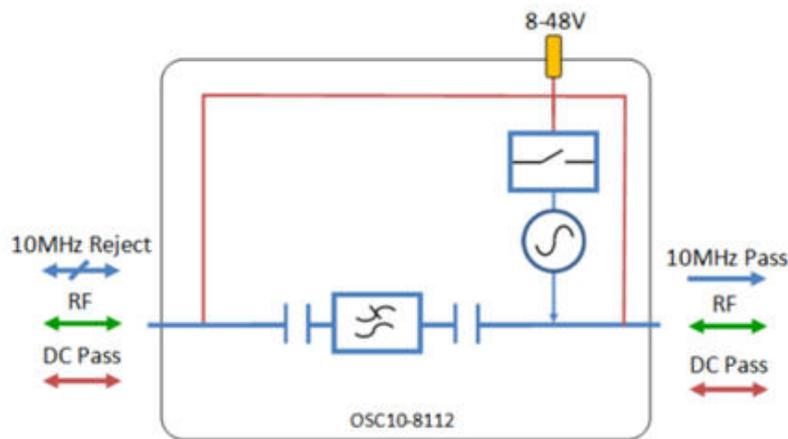
Compact
Housed in rugged compact enclosure

RF Parameters					
		N5N5	F7F7		
Frequency Range		850-2150 MHz			
RF Connectors		50Ω N-Type	75Ω F-Type		
Insertion Loss (dB)	Typical	0.7			
	Maximum	1.2			
Output Level ± (dB)		0 ± 2.5			
Input Return Loss (dB)	Typical	16	12		
	Minimum	10	8		
Output Return Loss (dB)	Typical	16	12		
	Minimum	10	8		
Phase Noise Characteristics (dBc/Hz)			10MHz Source Characteristics		
1Hz	<-85	Frequency Setting		10±0.000001 MHz	
10Hz	<-115	Output Type			Sinewave
100Hz	<-140	Harmonic Rejection	2nd	>50 dB	
1000Hz	<-150		3rd	>40 dB	
10000Hz	<-155		4th	>45 dB	
			5th	>60 dB	
Oscillator Characteristics					
Frequency Stability					
Over temperature*	< ± 3x10 ⁻⁸				
Over time (per year)	< ± 5x10 ⁻⁸				
Short Term Stability (per second)	< ± 1x10 ⁻¹¹				
Load change	< ± 5x10 ⁻⁹				
Power Supply Variations	< ± 5x10 ⁻⁹				
Stability With Aging					
Per Day	< ± 2x10 ⁻⁹				
Per Year	< ± 5x10 ⁻⁷				

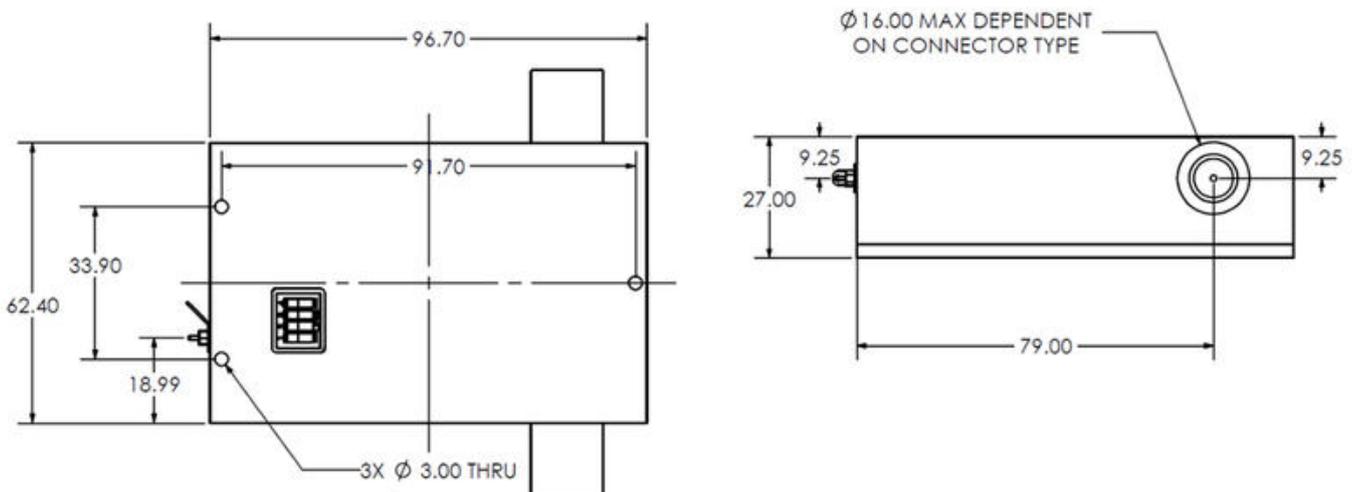
10MHz Rejection is -65dB *to ports which are applicable

Environmental		Max Operating Parameters	
Operating Temperature	0°C to +55°C	Input RF Power	+36dBm (4W)
Storage Temperature	-20°C to +75°C	DC Voltage	26V on Bias Port 24V on RF input
Location	Indoor use Only	DC Current Max	3A on DC inject
Humidity Max	85% non-condensing	DC Consumption	Steady State Consumption <60mA
Altitude Max	10,000 feet		Peak @ warm up <200mA

Diagram



Physical Dimensions (mm)



*IP67 integrity is maintained by populating all ports with sufficiently rated connectors and that unused ports have IP67 terminators or dust caps when awaiting connection. Dust caps are not sold with this product.