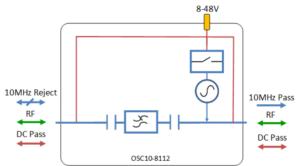


10 MHz Oscillator

850 - 2150 MHz





- 10 MHz ovenised oscillator
- L band, 10MHz and DC multiplexed output
- Input RF port ito take L band signal & multiplex with high stability 10MHz source
- 10MHz is independently controlled by switches
- DC is always on

Available with RF connector options:

- 50 Ω SMA
- 50 Ω N-type
- 50 Ω BNC
- 75 Ω BNC
- 75 Ω F-type



Compact
Housed in
rugged compact
enclosure

RF Parameters						
OSC-10-8112		S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range		850 - 2150 MHz				
RF Connectors		50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Insertion Loss (dB)	Тур.	0.7	0.7	0.7	0.7	0.7
	Max.	1.2	1.2	1.2	1.2	1.2
Output Level (dBm)		0 ± 2.5	0 ± 2.5	0 ± 2.5	0 ± 2.5	0 ± 2.5
Input Return Loss (dB)	Тур.	16	16	15	12	12
	Min	10	10	10	8	8
Output Return Loss (dB)	Тур.	16	16	15	10	12
	Min	10	10	10	8	8
10MHz Rejection is -65dB* *to ports which are applicable	e					

Broadcast







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Model Number: OSC-10-8112

10 MHz Oscillator

Technical specifications and operating parameters

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			

Phase Noise Characteristics (dBc/Hz)		
1Hz	<-85	
10Hz	<-115	
100Hz	<-140	
1000Hz	<-150	
10000Hz	<-155	

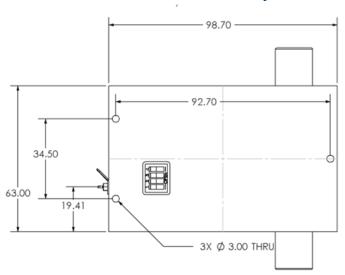
10MHz Source Characteristics				
Frequency	Setting	10±0.000001 MHz		
Output Type		Sinewave		
Harmonic Rejection	2nd	>50 dB		
	3rd	>40 dB		
	4th	>45 dB		
	5th	>60 dB		

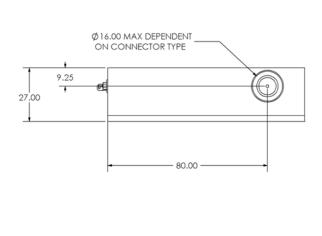
Environmental		
Operating Temperature		0°C to +55°C
Storage Temperature		-20°C to +75°C
Location		Indoor use Only
Humidity	Max	85% non-condensing
Altitude	Max	10,000 feet

Max Operating Parameters		
Input RF Power	+36 dBm (4W)	
DC Voltage	26V on Bias Port 24V on RF input	
DC Current Max	3A on DC inject	
DC Consumption	Steady State Consumption <60mA Peak @ warm up <200mA	

Operation beyond these limits may cause instantaneous and permanent damage.

Physical Dimensions (mm)





Note: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved specification accuracy.

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