

RF Parameters						
OSC-10-8108		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.	0.5	0.5	0.5	0.7	0.7
	Max.	1.0	1.0	1.0	1.0	1.0
Flatness ± (dB)		0.25	0.25	0.3	0.4	0.5
Return Loss L-band port (dB)	Тур.	16	16	14	10	10
	Min	10	10	10	8	8
Return Loss Multiplexed port (dB)	Тур.	15	15	12	10	10
	Min.	10	10	10	8	8
10MHz Rejection is –55dB* *to ports which are applicable						









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Model Number: **OSC-10-8108** 10 MHz Oscillator

RF Components

Technical specifications and operating parameters

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	
DC Voltage		55V	
DC Current I	Max	3A	

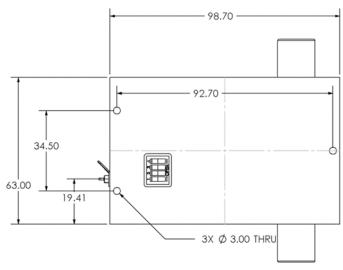
Operation beyond these limits may cause instantaneous and permanent damage.

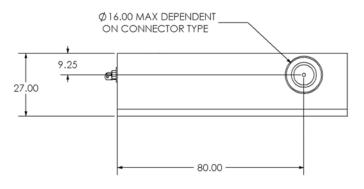
Phase Noise Characteristics (dBc/Hz)			
1Hz	<-85		
10Hz	<-115		
100Hz	<-140		
1000Hz	<-150		
10000Hz	<-155		

10MHz Source Characteristics			
Frequency Setting		10,0000,000 ±10 MHz	
Level (dBm)		0, 5 , 10 or 15 ±1.5	
Output T	ype Sinewave		
Harmonic Rejection	2nd	>50 dB	
	3rd	>40 dB	
	4th	>45 dB	
	5th	>60 dB	

Oscillator Characteristics			
Frequency Stability			
Over temperature	$< \pm 3x10^{-8}$ (Warm up time at 25°C < $\pm 1x10^{-7}$ is less than 2 minutes)		
Short Term Stability (per second)	< ± 1x10 ⁻¹¹		
Load change	< ± 5x10 ⁻⁹		
Over Time (per year)	< ± 5x10 ⁻⁸		
Stability with Aging			
Per Day	<± 2x10 ⁻⁹		
Per Year	<± 5x10 ⁻⁷		

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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Table of Operations

Switzh	Function		
Switch	Closed	Open	
Sw1	+5dB Gain	No Gain	
Sw2	+10dB Gain	No Gain	
Sw3	10MHz Inject	10 MHz inject off	
Sw4	DC Inject	DC inject off	

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