10 MHz Oscillator

with L-band and DC multiplexer / bias TEE

850-2150 MHz

Compact
Housed in rugged compact enclosure.

850-2150 MHz
Operating frequency range.

RF Parameters		
		F7F7
Frequency Range		850-2150 MHz
RF Connectors		75Ω F-Type
Mean Insertion Loss (dB)		0.8±0.3
Return Loss (dB)	Typical	10
	Minimum	8

Phase Noise Characteristics (dBc/Hz)	
1Hz	<-95
10Hz	<-125
100Hz	<-145
1000Hz	<-150
10000Hz	<-155

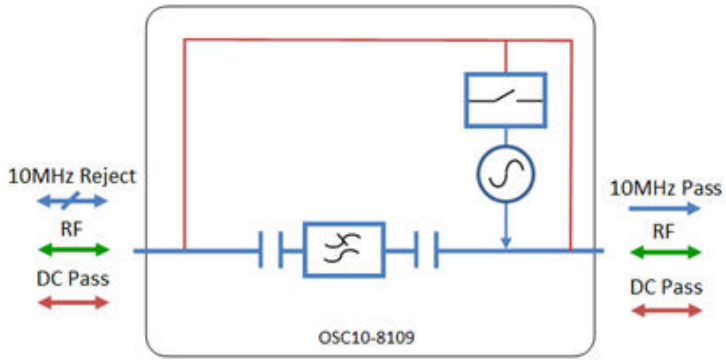
10MHz Source Characteristics		
Frequency Setting		10±0.000001 MHz
Output Power Level (dBm)		-2±2
Output Type		Sinewave
Harmonic Rejection	2nd	>60 dB
	3rd	>50 dB
	4th	>60 dB
	5th	>60 dB

Oscillator Characteristics	
Frequency Stability	
Over temperature*	< ± $3x10^{-8}$
Over time (per year)	< ± $5x10^{-8}$
Short Term Stability (per second)	< ± $5x10^{-12}$
Load change	< ± $5x10^{-10}$
Power Supply Variations	< ± $2x10^{-10}$
Stability With Aging	
Per Day	< ± $5x10^{-10}$
Per Year	< ± $5x10^{-8}$

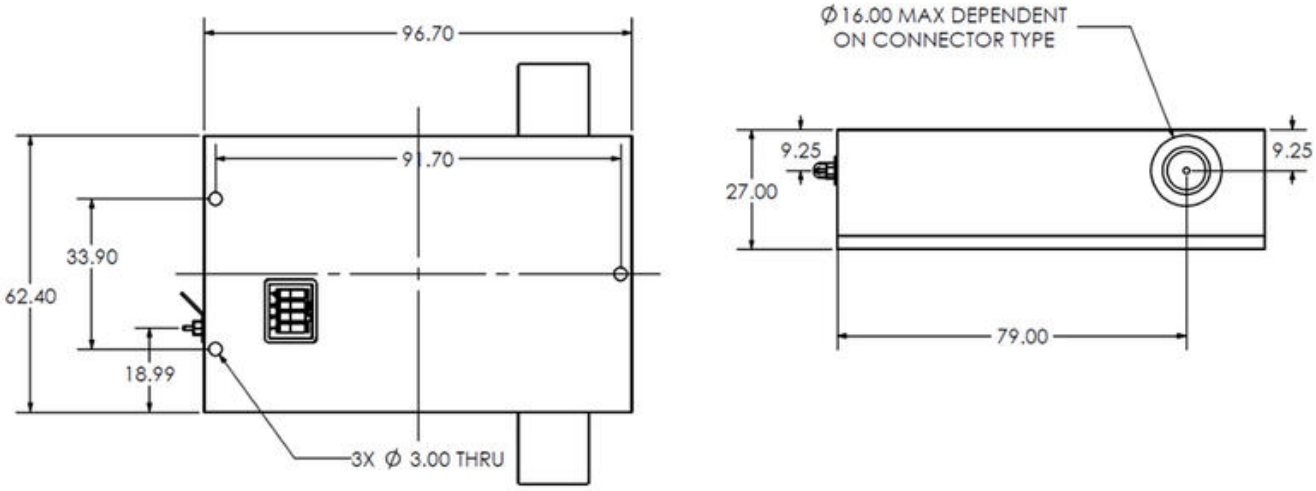
Environmental		
Operating Temperature		0˚C to +55˚C
Storage Temperature		-20˚C to +75˚C
Location		Indoor use Only
Humidity	Max	85% non-condensing
Altitude	Max	10,000 feet

Max Operating Parameters		
Input RF Power		+36dBm (4W)
DC Voltage		32V
DC Current	Max	3.5A
DC Consumption		1.0A Start up / 400 mA Steady State

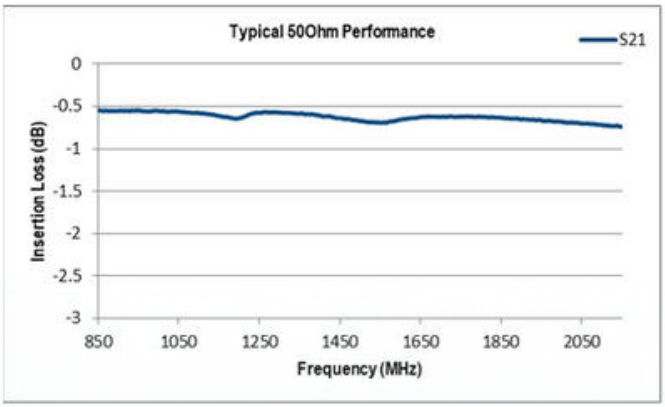
Diagram

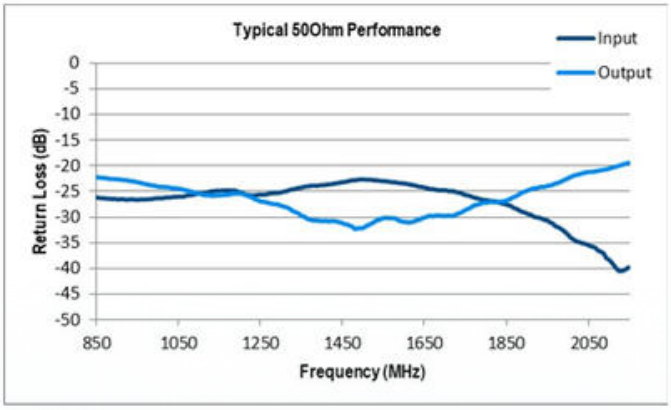


Physical Dimensions (mm)



Plots





1*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.