



10 MHz Oscillator

with L-band and DC multiplexer / bias TEE

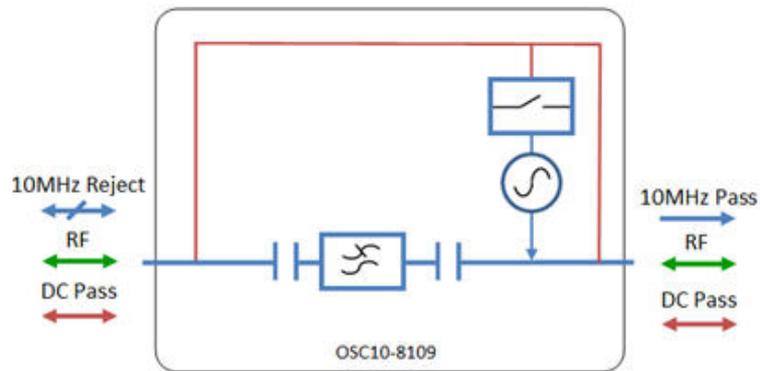
850-2150 MHz
Operating frequency range.



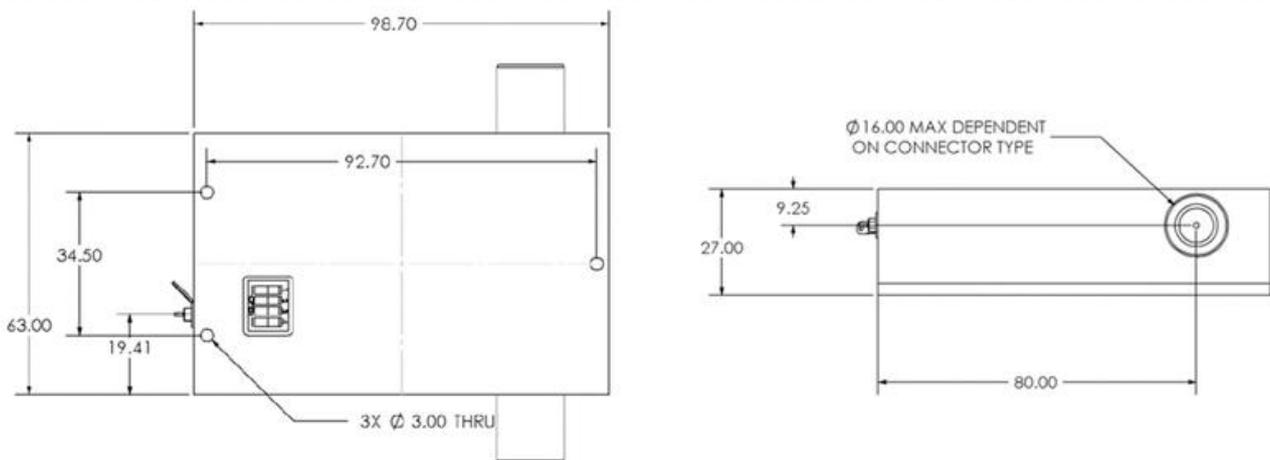
Compact
Housed in rugged
compact enclosure.

RF Parameters					
		N5N5	B5B5	B7B7	F7F7
Frequency Range		850-2150 MHz			
RF Connectors		50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Mean Insertion Loss (dB)		0.7±0.3		0.8±0.3	
Return Loss (dB)	Typical	16	14	10	
	Minimum	12		8	
Phase Noise Characteristics (dBc/Hz)			10MHz Source Characteristics		
1Hz	<-95		Frequency Setting		10±0.000001 MHz
10Hz	<-125		Output Power Level (dBm)		5±5
100Hz	<-145		Output Type		Sinewave
1000Hz	<-150		Harmonic Rejection	2nd	>50 dB
10000Hz	<-155			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		Max Operating Parameters			
Operating Temperature		0°C to +55°C	Input RF Power	+36dBm (4W)	
Storage Temperature		-20°C to +75°C	DC Voltage	32V	
Location		Indoor use Only	DC Current Max	3.5A	
Humidity	Max	85% non-condensing	DC Consumption	1.0A Start up / 400 mA Steady State	
Altitude	Max	10,000 feet			

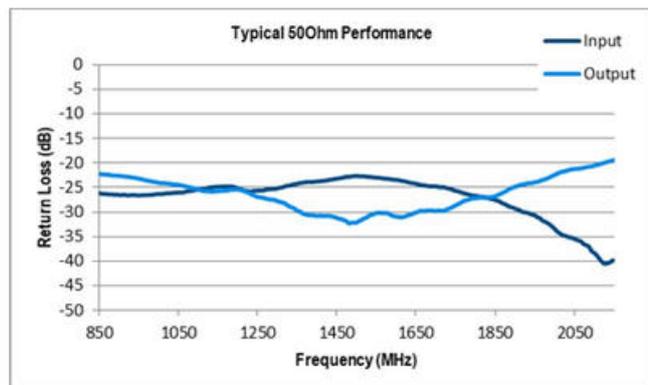
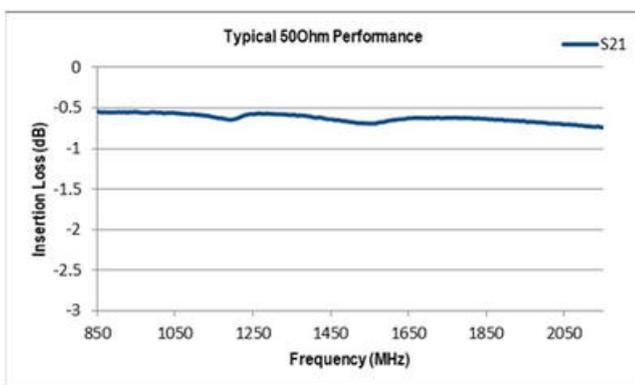
Diagram



Physical Dimensions (mm)



Plots



*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.