

10 MHz Redundant Oscillator



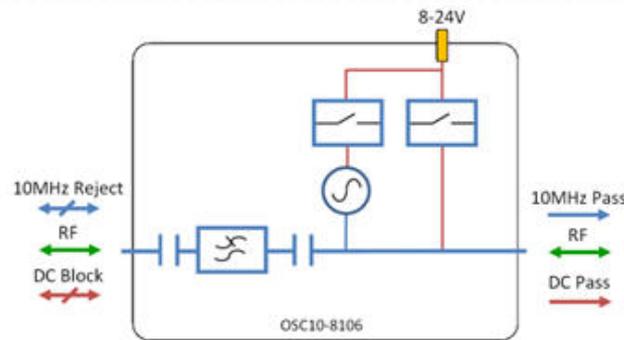
RF Parameters						
		S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range		850-2150 MHz				
RF Connectors		50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Insertion Loss (dB)	Typical	0.5		0.7		
	Maximum	1.0				
Flatness ± (dB)		0.25		0.3	0.4	0.5
Return Loss L-band port (dB)	Typical	16		14	10	
	Minimum	10			8	
Return Loss Multiplexed port (dB)	Typical	15		12	10	
	Minimum	10			8	
Phase Noise Characteristics (dBc/Hz)			10MHz Source Characteristics			
1Hz		<-85	Frequency Setting		10,000,000 ±10 Hz	
10Hz		<-115	Output Power Level (dBm)		0, 5, 10 or 15 ±1.5	
100Hz		<-140	Output Type		Sinewave	
1000Hz		<-150	Harmonic Rejection	2nd	>50 dB	
10000Hz		<-155		3rd	>40 dB	
				4th	>45 dB	
				5th	>60 dB	
Oscillator Characteristics						
Frequency Stability						
Over temperature*	< ± 3x10 ⁻⁸ (Warm up time at 25°C < ± 1x10 ⁻⁷ is less than 2 minutes)					
Over time (per year)	< ± 5x10 ⁻⁸					
Short Term Stability (per second)	< ± 1x10 ⁻¹¹					
Load change	< ± 5x10 ⁻⁹					
Stability With Aging						
Per Day	< ± 2x10 ⁻⁹					
Per Year	< ± 5x10 ⁻⁷					

10MHz Rejection is -55dB* to ports which are applicable

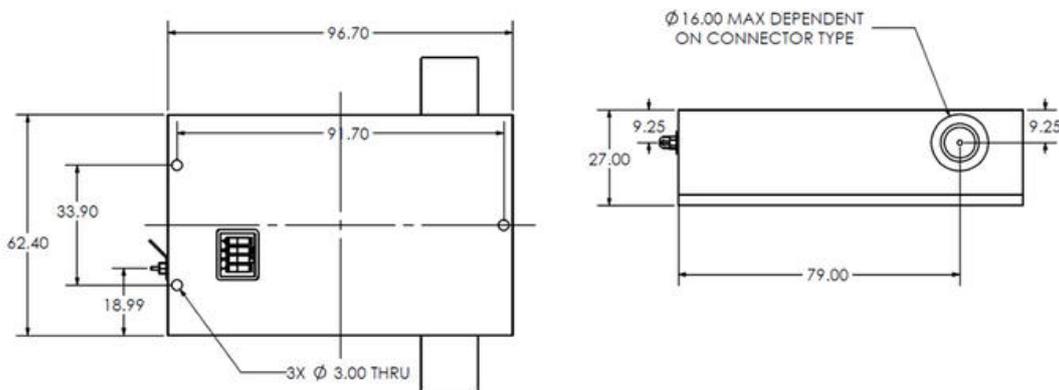
Environmental		Max Operating Parameters	
Operating Temperature	0°C to +55°C	Input RF Power	+36dBm
Storage Temperature	-20°C to +75°C	DC Voltage	55V
Location	Indoor use Only	DC Current	Max 3A
Humidity	Max 85% non-condensing		
Altitude	Max 10,000 feet		

Switch Functions		
Switch	Function	
	Closed	Open
SW1	+5 dB Gain	No Gain
SW2	+10 dB Gain	No Gain
SW3	10MHz Inject	10MHz inject off
SW4	DC Inject	DC Inject off

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.