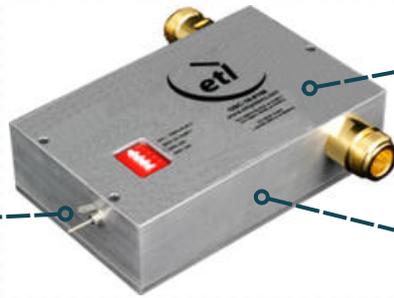




# 10MHz Oscillator Mux Tee

850-2150 MHz



8-24V  
External DC powering

Compact  
Housed in rugged compact enclosure

Flexible Mounting  
Tapped screw & through hole mounting options

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
Mean Insertion Loss (dB)		0.3 ± 0.3			0.5 ± 0.3	
Flatness ± (dB)		0.2			0.8	
Input Return Loss (dB)	Typical	18			12	
	Minimum	14			8	
Output Return Loss (dB)	Typical	18		15	10	12
	Minimum	10			6	

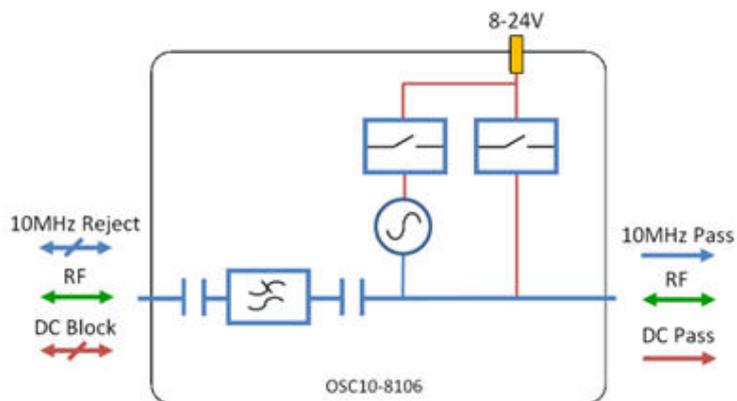
Phase Noise Characteristics (dBc/Hz)		10MHz Source Characteristics			
1Hz	<-95	Frequency Setting		10±0.000001 MHz	
10Hz	<-125	Output Power Level (dBm)		5±5	
100Hz	<-145	Output Type			Sinewave
1000Hz	<-150	Harmonic Rejection	2nd	>60 dB	
10000Hz	<-155		3rd	>50 dB	
			4th	>60 dB	
			5th	>60 dB	

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

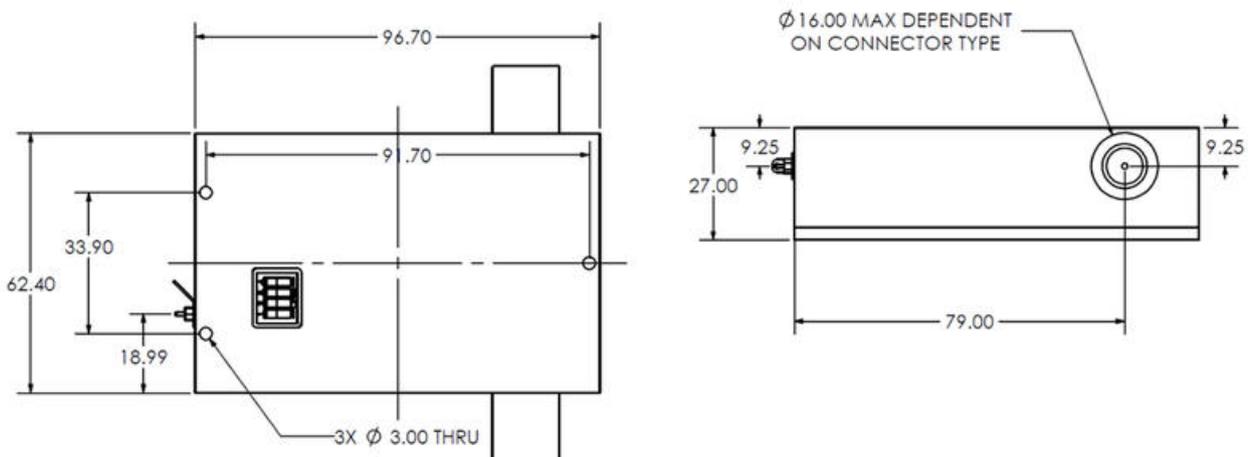
\*Within the temperature range 0°C to +55°C

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	26V on Bias Port 24V on RF input
Location	Indoor use Only		DC Consumption	1000mA on start-up
Humidity	Max	85% non-condensing		400mA Steady State
Altitude	Max	10,000 feet	DC Current	1A on DC inject

## 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.