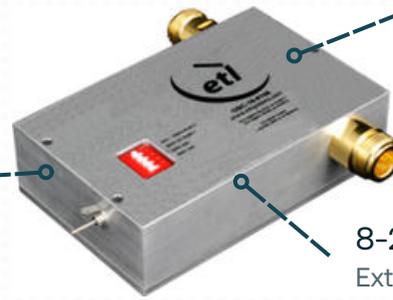




# 50MHz Oscillator Mux Tee

850-2150 MHz  
Operating frequency range.



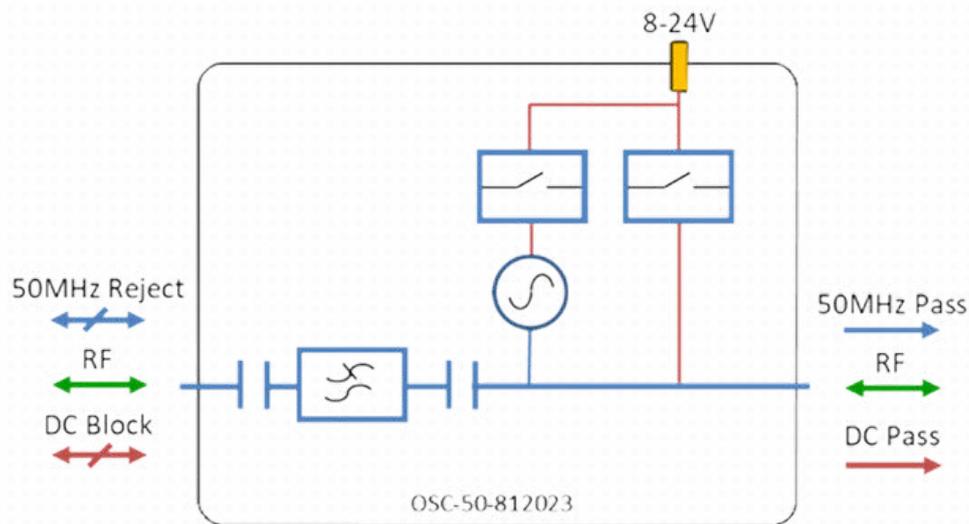
Compact  
Housed in rugged  
compact enclosure.

8-24V  
External DC powering

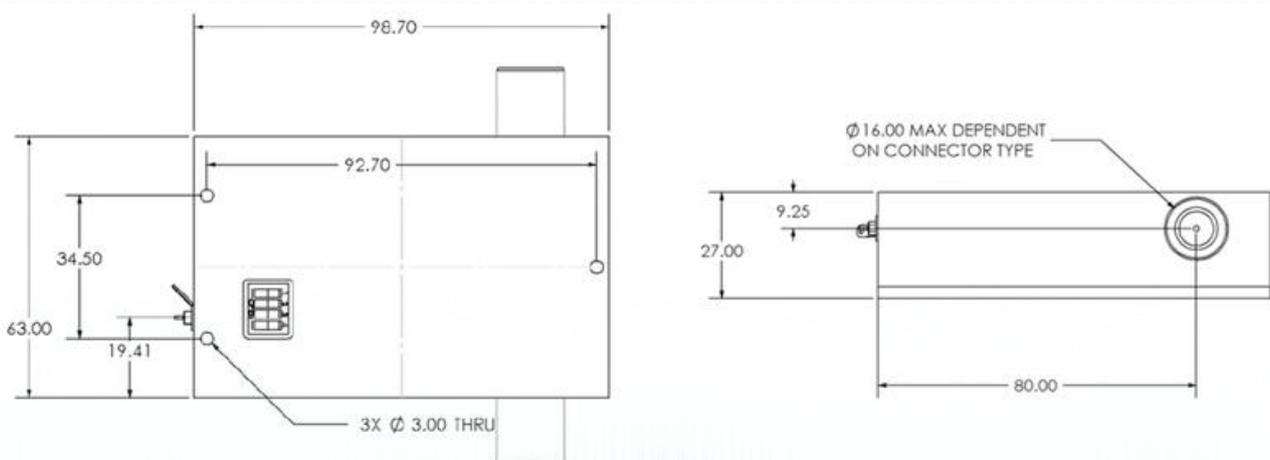
RF Parameters					
	S5S5	N5N5	B5B5	B7B7	F7F7
Frequency Range	850-2150 MHz				
RF Connectors	50Ω SMA	50Ω N-Type	50Ω BNC	75Ω BNC	75Ω F-Type
Mean Insertion Loss (dB)	0.3±0.3			0.5±0.3	
Flatness ± (dB)	0.2			0.8	
Input Return Loss (dB)	Typical	18		12	
	Minimum	14		8	
Output Return Loss (dB)	Typical	18	15	10	12
	Minimum	10		6	
50MHz Rejection is -60dB to ports which are applicable					
Environmental					
Temperature	Operating 0°C to +55°C			Storage -20°C to +75°C	
Location	Indoor use only				
Humidity (Max.)	85% non-condensing				
Altitude (Max.)	10,000 feet				
Oscillator Characteristics					
Frequency Stability			Stability with Aging		
Over temperature*	< ± 3x10 <sup>-8</sup>		Per Day	<± 1x10 <sup>-9</sup>	
Over time (per year)	< ± 1x10 <sup>-7</sup>		Per Year	<± 1x10 <sup>-7</sup>	
Short Term Stability (per second)	< ± 5x10 <sup>-11</sup>				
Load change	< ± 2x10 <sup>-9</sup>				
Power Supply Variations	< ± 2x10 <sup>-9</sup>				
Max Operating Parameters			Typical Phase Noise Characteristics (dBc/Hz)		
Input RF Power	+36dBm (4W)		10Hz	<-100	
DC Voltage	26V on Bias Port 24V on RF input		100Hz	<-125	
DC Current	1A on DC inject		1000Hz	<-140	
DC Consumption	1000mA on startup, 400mA Steady State		10000Hz	<-155	

50MHz Source Characteristics		
Frequency Setting	50±0.000001 MHz	
Output Power Level (dBm)	9±5	
Output Type	Sinewave	
Harmonic Rejection (dB)	2nd	>60
	3rd	>50
	4th	>60
	5th	>60

## 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.