



**YY LABS INC**

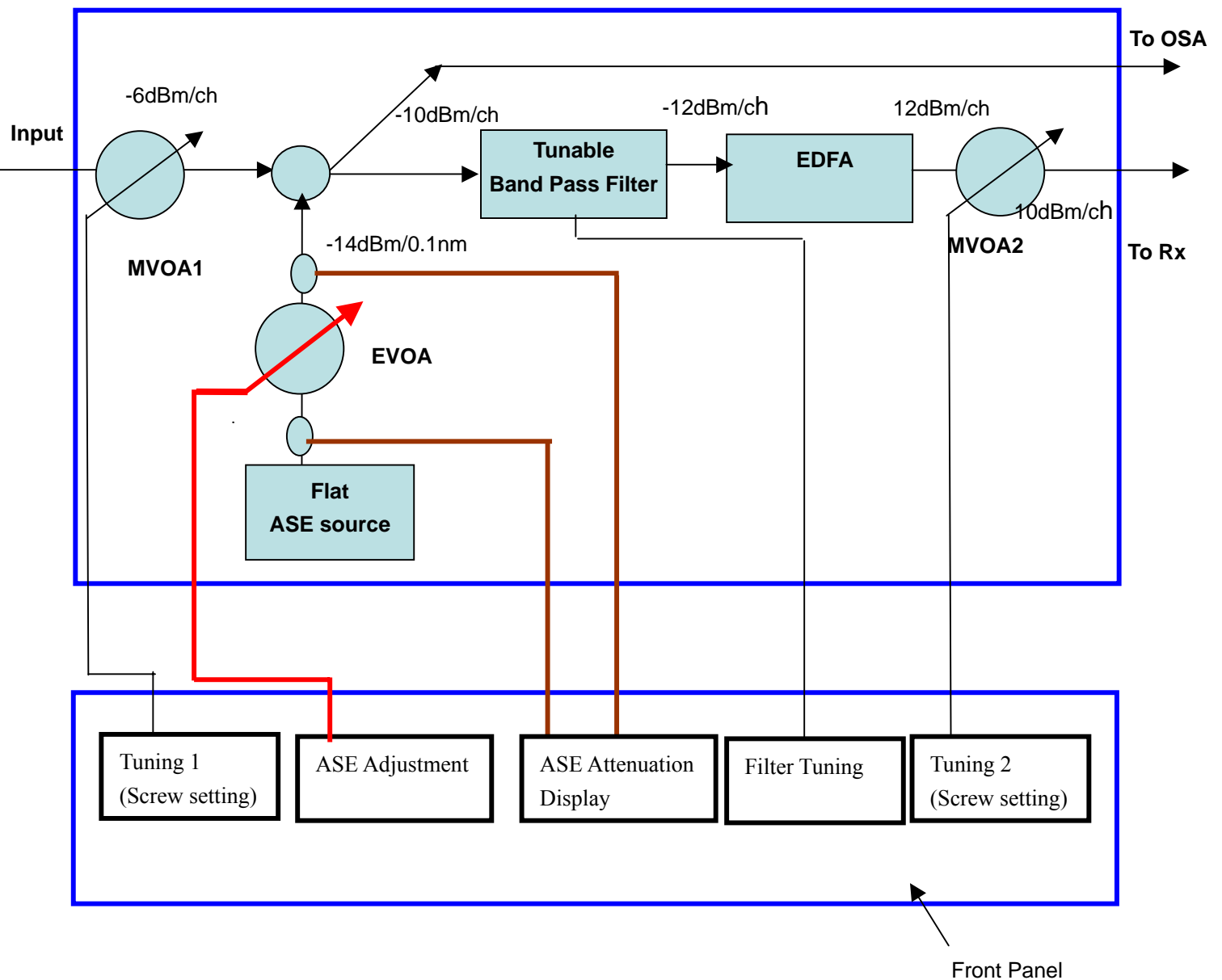
## **OSNR Generator Specifications**



**P.O. Box 597, Fremont, CA 94537, T: 510-739-6049, [www.YYLabs.com](http://www.YYLabs.com)**

YY Labs' 0114 Optical Signal and Noise Ratio Generator (OSNR Generator) has been designed to provide users an instrument with an adjustable measurable ASE source, a tunable filter and an Erbium Doped Fiber Amplifier (EDFA) for doing OSNR measurements for DQPSK or other optical systems. Besides manual operation, the instrument also has GPIB or USB interface for user to operate from the computer remotely.

### 1. OSNR Generator system



## 2. Specification

<b>OSNR min</b>	8	dB
<b>ASE Source</b>		
Wavelength	1527-1561.5	nm
Flatness	<1	dB
Power (Max)	>-17	dBm/0.1nm
Attenuation Dynamic Range	1.0 –33.9	dB
<b>Tunable Band Pass Filter</b>		
Tuning Range	1527.994-1563.047	nm
Channel setting error	0.032	nm
Channel repeatability	0.01	nm
Passband Width @ 0.5 dB	>30	GHz
Passband width @ 3dB	50 (Typical)	GHz
Band Width @ 25 dB	<150	GHz
Passband Ripple (over ITU ± 10 GHz)	<0.5	GHz
PDL (over ITU ± 10 GHz)	<0.4	dB
Adjacent Channel Isolation (over ITU ± 10 GHz)	>25	dB
Non-Adjacent Channel Isolation	>35	dB
Insertion Loss (over ITU ± 10 GHz)	<2.7	dB
Wavelength Temperature Dependence	± 1 (Typical)	pm/°C
Polarization Mode Dispersion	0.5	ps
Return Loss	>40	dB
<b>MVOA</b>		
Resolution	≤ 0.1	dB
Excess insertion loss	≤0.6	dB
Attenuation Dynamic Range	0.6-33	dB
<b>EDFA</b>		
Gain	24	dB
Output Power	13	dBm
Noise Figure	<5	
<b>Electrical</b>		
Power	18	W
Voltage	110-220	ACV
<b>Mechanical Dimension</b>		
	230.4×89×300	mm
<b>Weight</b>		
	5	lb