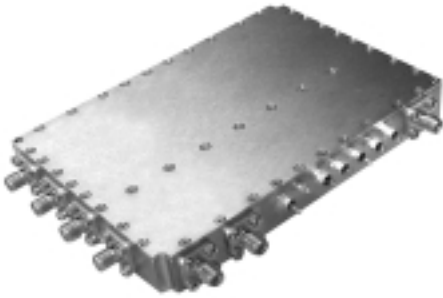




SONET Products

Series DPLR - Digital PLL Clock Regenerators



Features

- Flat Jitter Transfer Function:
Less than 0.1 dB Peaking
- Low Jitter Generation: Less than
10 mUI rms (up to OC-48)
- High Jitter Tolerance for Low BER
- Integer or Non-Integer Relationship
Between Input and Output Clock
Frequencies

Options

- Other Frequencies Available
- Improved Jitter (consult factory)
- Open Collector Alarm
- Higher Output Power (consult factory)

Description

Communication Techniques, Inc. Series DPLR, LOW JITTER, clock regenerators for SONET/SDH frequency and regenerate a new clock source at any other specified SONET/SDH frequency.

The DPLR series utilizes low noise Dielectric Resonator Oscillators (DROs) and Coaxial Resonator Oscillators (CROs) combined with proprietary phase-lock loop designs to meet SONET/SDH jitter transfer and jitter generation

specifications. Models are available with specified input or output clocks at Synchronous Optical Network (SONET) frequencies operating from 155.52 MHz (OC-3) to 9953.28 MHz (OC-192).

CTI's broad experience and expertise in microwave design and manufacturing capability is the solution for all of your SONET and signal source requirements.

Performance Specifications (Typical)

	OC-3	OC-12	OC-48	OC-96	OC-192
Output Frequency (MHz)	155.52	622.08	2488.32	4976.64	9953.28
Supply Voltage (VDC)	+5.25	+5.25	+5.25	+15	+15
Current Consumption (mA)	300	300	550	550	600
Output Power (dBm min)	0	0	+5	+14	+14
Input Impedance (Ohms)	50	50	50	50	50
Harmonics (dBc)	-20	-20	-20	-20	-20
Spurious Outputs (dBc)	-65	-65	-65	-65	-65
Jitter Transfer Function (dB max)	+0.1	+0.1	+0.1	+0.1	+0.2
Jitter Generation (mUI rms max)	1	3	5	6	20
Load VSWR	1.5:1 maximum				
Alarm	TTL HI in Lock				
Operating Temperature	0°C to 70°C				
Storage Temperature	-40°C to +100°C				
External Ref Frequency	51.84 to 9953.28 MHz				
Reference Input Level	0 ± 3dBm				

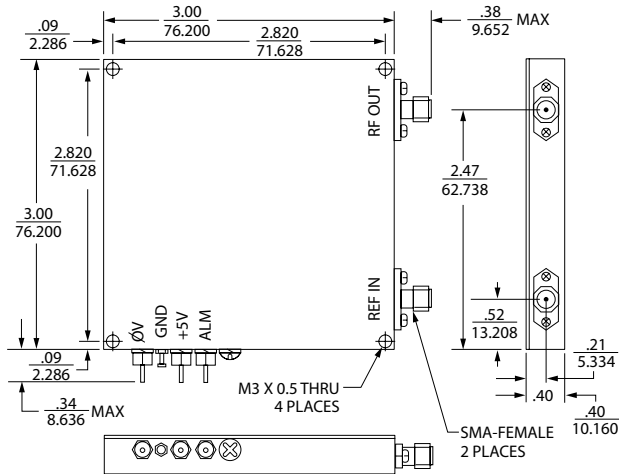
Note: Specifications subject to change without notice.



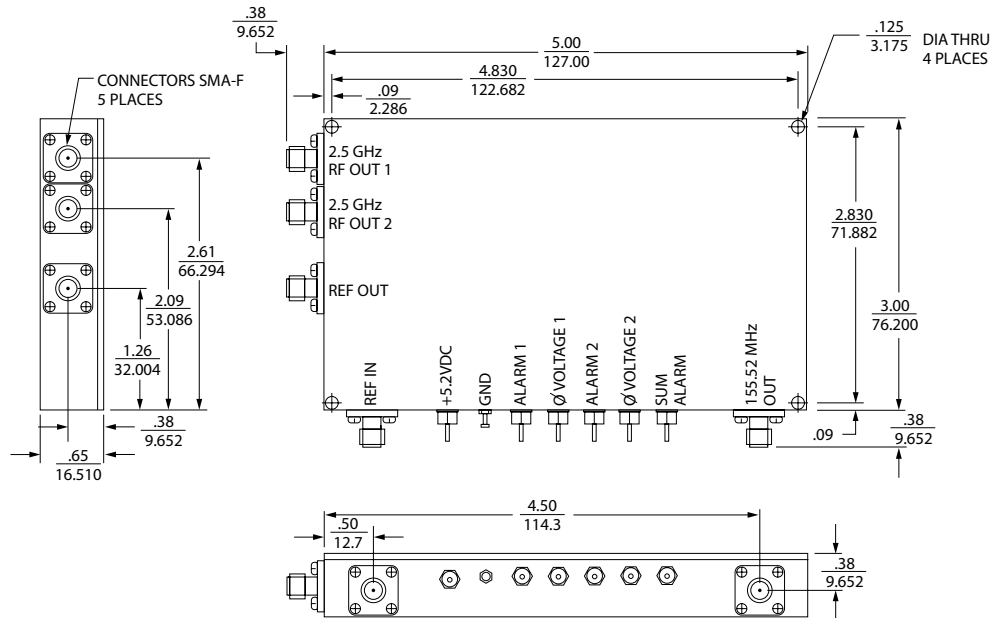
SONET Products Series DPLR - Digital PLL Clock Regenerators

Outline Drawings

155.52 MHz OC-3
and
622.08 MHz OC-12



2488.32 MHz OC-48

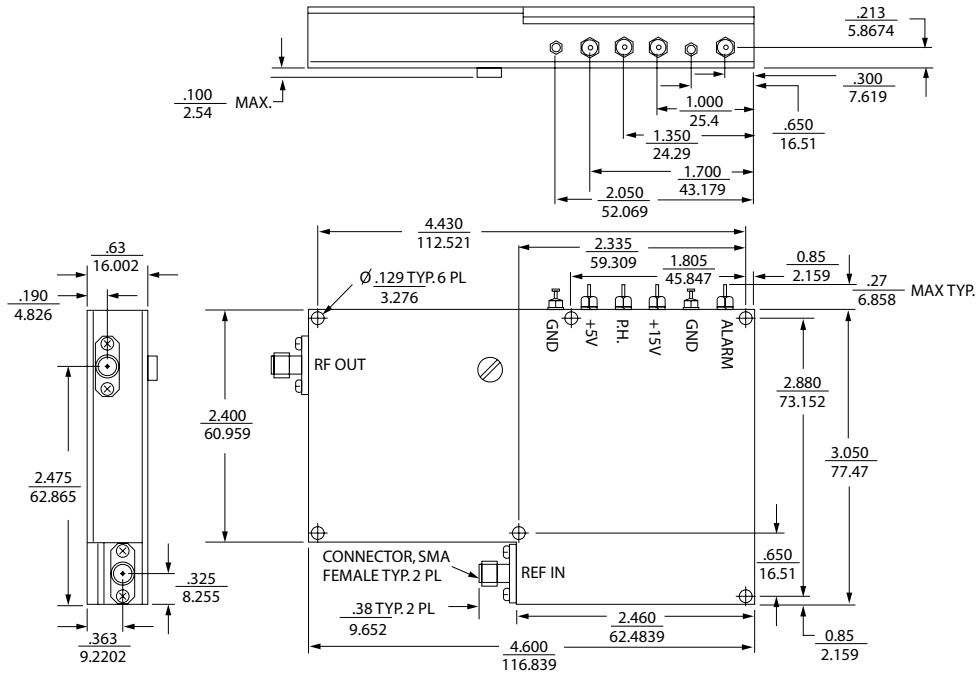




SONET Products

Series DPLR - Digital PLL Clock Regenerators

4976.64 MHz OC-96



9953.28 MHz OC-192

