

SONET / SDH Clock Recovery & Data Retiming

Series SCDR-192 | Preliminary Specifications

Features

- Ultra Low Jitter Superior Phase Stability
- 360 degrees Adjustable Phase
- Adjustable Threshold Level
- Low Input Level Sensibility
- > 1 V p-p Data Output
- Small Size, Measures only 2.5" x 2" x 0.8"
- NRZ or RZ Formats
- For Smaller Sizes Contact the Factory

Applications

- Long Haul Optical Networks
- 12.249 Gb/s, 9.953 Gb/s, 10.709Gb/s, 10.312Gb/s, 10.664 Gb/s models
- 3R Receivers



2.5" x 2" x 0.8"

Description

The SCDR-192 clock and data recovery module is designed to meet the requirements of most critical applications, such as long haul SONET/SDH fiber optic networks. Elcom's proprietary design emphasizes the high reliability and low power consumption of this product series.

Specifications

Parameter	Max (-5°C to +75°C)	Condition
Data Rates	12.249Gb/s, 10.664Gb/s, 9.953 Gb/s, 10.709Gb/s, 10.512Gb/s *	
Data Input Level	300 mV p-p	(Optional 100mV p-p)
Data Output Level	1 V p-p	Complementary
Output Jitter	4 psec p-p	
Clock Phase Stability	+/- 15 Degrees	Over Temperature
Data Output Transition Times	30 psec	
Data Output Return Loss	-10 dB	
Threshold Control	10 to 90%	0 to 3.3Vdc
Clock Output Level	1 Vp-p	VSWR 1.5:1
Clock Return Loss	-10dB	
Clock Phase Control	0 to 360 degrees	0 to +15Vdc
Clock Phase Stability	+/- 5 ps	Over Temperature
Spurious	< -60 dBc	
Harmonics	-30 dBc	
Operating Temperature	-5 to +75	
DC Power	+5V/500mA, -5V/500mA	

*20 and 40 Gbit/s Models under development

SONET / SDH Clock Recovery & Data Retiming

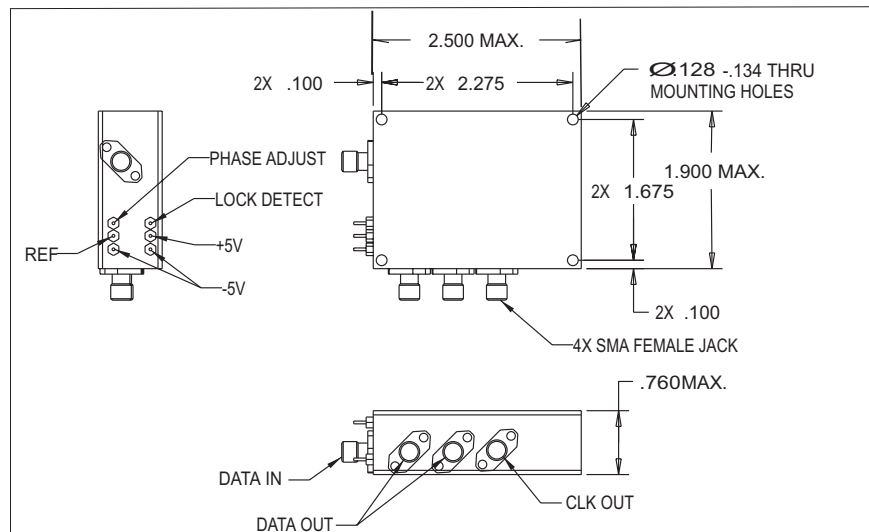
Series SCDR - 192

Ordering Information

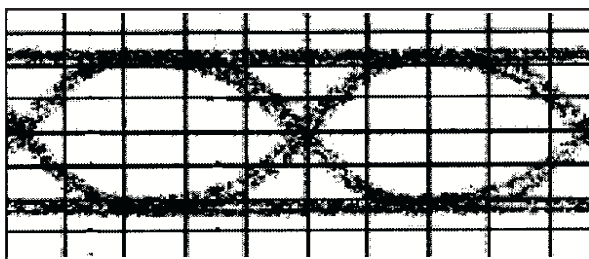
SCDR-192-F[GHz]

Example: SCDR-192-9.95328

Outline drawing

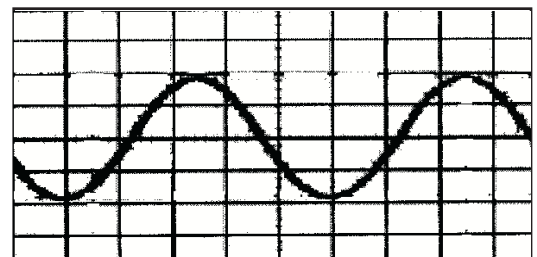


Data Output



20 ps/div

Clock Output



20.0 ps/div

Additional Products for Fiber Optic

- Synthesized Clock Generator
- Clock Recovery Module
- Clock Encoder and Decoder

Elcom

Technologies | 11 Volvo Drive, Rockleigh, NJ 07647 USA Tel: 201-767-8030, Fax: 201-767-6266, www.elcom-tech.com