

Fiber Optic Clock Amplifiers

Model FO-CD-2.66-00 - OC48 Clock Amplifier • Model FO-CD-10.7-00 - OC192 Clock Amplifier
Model FO-CD-21.4-00 - OC192 Clock Amplifier • Model FO-CD-43-00 - OC768 Clock Amplifier

Preliminary Specifications

PARAMETER	MODEL				UNITS
	FO-CD-2.66-00	FO-CD-10.7-00	FO-CD-21.4-00	FO-CD-43-01	
Description	OC-48 Clock Amplifier	OC-192 Clock Amplifier	OC-192 Clock Amplifier	OC-768 Clock Amplifier	
Operating Frequency Range	2.4 to 2.7	9.9 to 10.8	19.9 to 21.6	39.9 to 43.1	GHz
Input Power	-8 to +4	-8 to +4	-8 to+4	-8 to+4	dBc
Max Voltage Output (Note 1)	3.6 to 8	3.6 to 8	3.6 to 8	3.6 to 8	Vp-p
Gain Control Range	10	10	10	10	dB
Output Power variation over temp and input power	0.5	0.5	0.5	0.5	dB
90° min/180° max Phase Shifter	Option -01	Option -01	Option -01	Included	
Noise Figure	10	8	9	15	dB
Input/Output VSWR	1.5:1	1.5:1	1.5:1	1.5:1	
Output Dectector	Included	Included	Included	Included	
Harmonic Suppression	30	30	30	30	dBc
Operating Temperature Range	0 to 55	0 to 55	0 to 55	0 to 55	°C
Power Supply	+9V @ 850mA max for 8 Vpp units				
Connectors	SMA	SMA	SMA	V	
Option - 02	GPO	3.4x2.0x0.57	3.4x2.0x0.57	3.4x1.75x0.57	
Option - 03	Surface Mount	Not Applicable			
Nominal Size	3.4 x 2.0 x 0.57 Connectorized	3.4 x 2.0 x 0.57	3.4 x 2.0 x 0.57	3.4 x 2.0 x 0.57	inches

Note 1. Desired maximum output voltage must be specified at time of purchase.

Contact Narda for your custom requirements.

L-3 Communications has patent applications pending which protects this and related fiber optic products. These products may also be protected by other intellectual property rights including trademarks and copyrights.



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Applications: Drive lithium niobate (LiNbO3) or other types of optical modulators.

Features:

- ◆ Output amplitude control range of 10dB
- ◆ Excellent output amplitude stability over entire temperature and input power range
- ◆ Optional phase shifter provides greater than 90 degrees of phase variability
- ◆ Output power detector
- ◆ Internally regulated
- ◆ Automatic DC bias sequencing



Standard Frequency Ranges*:

FO-CD-2.66-00: 2.4 to 2.7 GHz
FO-CD-10.7-00: 9.9 to 10.8 GHz
FO-CD-21.4-00: 19.9 to 21.6 GHz
FO-CD-43-00: 39.8 to 43.1 GHz

*Alternative frequency ranges are available. Please consult factory for further information

Options:

- ◆ Amplifiers can be purchased with maximum output voltage between 3.6Vpp and 8Vpp
- ◆ Output voltage can be adjusted between the max output voltage and 10dB below the max output voltage
- ◆ Optional phase shifter
- ◆ Units can be purchased in matched pairs.
 - ◆ Matched to have the same output amplitude vs. control voltage characteristics
 - ◆ Matched to have the same phase vs. control voltage characteristics
 - ◆ Amplifiers will have the same phase and output amplitude characteristics versus temperature



