CERNEX, Inc.

Driver Amplifiers for Clock Recovery and Forward Error Correction

FEATURES:

- Output Power Levels up to 36 dBm (+40Vpp)
- Removable SMA Connectors
- Single Positive Voltage Supply
- Low Gain Ripple

APPLICATIONS:

- Drivers for Mach-Zhender Opto-Modulators and Inferometers

CNP Series

DESCRIPTION:

Cernex's CNP series are driver amplifiers for Clock Recovery and Forward Error Correction systems up to 40Gb/s. These driver amplifiers are designed and built with state of the art thin-film GaAs FETs technology that can be optimized to meet all customers' system requirements. Most applications for these driver amplifiers are used in telecom, terrestrial, and optical fiber communications systems. Cernex offers several options such as integrated phase compensation, variable gain control, and built-in detectors/power monitors.

SPECIFICATIONS:

Model Number	Frequency Range (GHz)	Small Signal Gain (dB) Min.	Output Power		Input/ Output Match (dB) Min.	Current @ 12-15VDC (mA) Typ.
			Vpp Min.	dBm Min		
CNP05063625	5.5 – 6.5	36	+11.24	25	-10/-10	675
CNP05063427	5.5 – 6.5	34	+14.14	27	-10/-10	775
CNP05063230	5.5 – 6.5	32	+20.00	30	-10/-10	925
CNP05063033	5.5 – 6.5	30	+28.28	33	-10/-10	1775
CNP05062835	5.5 – 6.5	28	+35.57	35	-10/-10	2500
CNP09103625	9.0 – 10.0	36	+11.24	25	-10/-10	675
CNP09103427	9.0 – 10.0	34	+14.14	27	-10/-10	775
CNP09103230	9.0 – 10.0	32	+20.00	30	-10/-10	925
CNP09103033	9.0 – 10.0	30	+28.28	33	-10/-10	1775
CNP09102835	9.0 – 10.0	28	+35.57	35	-10/-10	2500
CNP10113625	10.0 – 11.0	36	+11.24	25	-10/-10	675
CNP10113427	10.0 – 11.0	34	+14.14	27	-10/-10	775
CNP10113230	10.0 – 11.0	32	+20.00	30	-10/-10	925
CNP10113033	10.0 – 11.0	30	+28.28	33	-10/-10	1775
CNP10112835	10.0 – 11.0	28	+35.57	35	-10/-10	2500
CNP11123625	11.0 – 12.0	36	+11.24	25	-10/-10	675
CNP11123427	11.0 – 12.0	34	+14.14	27	-10/-10	775
CNP11123230	11.0 – 12.0	32	+20.00	30	-10/-10	925
CNP11123033	11.0 – 12.0	30	+28.28	33	-10/-10	1775
CNP11122835	11.0 – 12.0	28	+35.57	35	-10/-10	2500
CNP12133625	12.0 – 13.0	36	+11.24	25	-10/-10	675
CNP12133427	12.0 – 13.0	34	+14.14	27	-10/-10	775

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Model Number	Frequency Range (GHz)	Small Signal Gain (dB) Min.	Output Power		Input/ Output Match (dB) Min.	Current @ 12 VDC (mA) Typ.
			Vpp Min.	dBm Min		
CNP12133230	12.0 – 13.0	32	+20.00	30	-10/-10	925
CNP12133033	12.0 – 13.0	30	+28.28	33	-10/-10	1775
CNP12132835	12.0 – 13.0	28	+35.57	35	-10/-10	2500
CNP20213225	20.5 – 21.5	32	+11.24	25	-10/-10	675
CNP20213027	20.5 – 21.5	30	+14.14	27	-10/-10	800
CNP20212830	20.5 – 21.5	28	+20.00	30	-10/-10	1500
CNP39403225	39.0 – 40.0	32	+11.24	25	-10/-10	800
CNP39403027	39.0 – 40.0	30	+14.14	27	-10/-10	1500
CNP39402830	39.0 – 40.0	28	+20.00	30	-10/-10	2500
CNP42423220	42.0 – 42.6	32	6.5	20	-10/-10	700
CNP42423023	42.0 – 42.6	30	8.0	23	-10/-10	800
CNP42422825	42.0 – 42.6	28	+11.24	25	-10/-10	900

ALL SPECIFICATIONS ARE GUARNATEED @ 25°C. AVAILABLE OPTIONS INCLUDE OTHER FREQUENCY BANDS AND HIGER OUTPUT VOLTAGE LEVELS, OFFSET VOLTAGE ADDED TO THE OUTPUT SIGNAL, PHASE SHIFTER AND VARIABLE GAIN CONTROL.

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE.

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