

## Gain Control Amplifiers

### FEATURES:

- ❖ Coverage From 0.5 to 26.5 GHz
- ❖ 10-20dB Of Gain Control
- ❖ Small Signal Gain of 18-45dB
- ❖ Compact Thin-Film Construction
- ❖ 0-10 Volts @ <10mA Typical



### DESCRIPTION:

### CGC Series

Cernex's CGC series provide a continuously variable gain control over six key wideband frequency ranges, giving the system designer with increased dynamic range and the ability to set the signal levels. The low control current (typically less than 10mA) simplifies control driver requirements. The variable gain control modules are combined with high performance GaAs FET and MMIC fixed-gain modules to provide low noise figure and medium power output over the entire multi-Octave frequency bands.

### SPECIFICATIONS:

Model Number	Frequency Range (GHz)	SS Gain w/o Gain Control (dB) Min.	Gain Control Range (dB) Max.	SS Gain Flatness (+/- dB) Max.	Noise Figure		P1DB		VSWR In/Out Max.	Current @ 12-15 VDC	Case Type
					@ No Gain Control (dB) Max.	@ Max Gain Control (dB) Max.	With No Gain Control (dBm) Min.	@ Max. Gain Control (dBm) Min.			
CGCU5022525	0.5-2.0	25	10	0.75	2.5	3.5	15	12	2:1	150	LN5/HN5
CGCU5024025	0.5-2.0	40	20	1.50	2.5	4.0	15	12	2:1	320	LN7/HN7
CGC02042520	2-4	25	10	0.75	2.0	3.0	15	12	2:1	180	LN5/HN5
CGC02044020	2-4	40	20	1.50	2.0	4.0	15	12	2:1	360	LN5/HN5
CGC02062530	2-6	25	10	1.0	3.0	4.0	15	12	2:1	180	LN5/HN5
CGC02064030	2-6	40	20	2.0	3.0	5.0	15	12	2:1	360	LN7/HN7
CGC02082535	2-8	25	10	2.0	3.5	4.5	15	12	2:1	250	LN5/HN5
CGC02084035	2-8	40	20	3.0	3.5	5.5	15	12	2:1	360	LN7/HN7
CGC04082530	4-8	25	10	1.0	3.0	4.0	15	12	2:1	180	LN5/HN5
CGC04084030	4-8	40	20	1.75	3.0	5.0	15	12	2:1	350	LN7/HN7
CGC04122540	4-12	25	10	1.5	4.0	5.0	15	12	2:1	180	LN5/HN5
CGC04124040	4-12	40	20	2.5	4.0	6.0	15	12	2:1	360	LN6/HN6
CGC05152545	5-15	25	10	1.5	4.5	5.5	15	12	2:1	180	LN5/HN5
CGC05154045	5-15	40	20	2.5	4.5	6.5	15	12	2:1	360	LN6/HN6
CGC06182550	6-18	25	10	1.5	5.0	6.0	15	12	2:1	180	LN5/HN5
CGC06184050	6-18	40	20	2.5	5.0	7.0	15	12	2:1	360	LN7/HN7
CGC08202560	8-20	25	10	1.5	6.0	7.0	15	12	2:1	250	LN5/HN5
CGC08204060	8-20	40	20	2.5	6.0	8.0	15	12	2:1	450	LN7/HN7

ALL THE ABOVE SPECIFICATIONS ARE @ 25°C.  
OTHER FREQUENCY BANDS, HIGHER GAIN & POWER LEVELS ARE ALSO AVAILABLE.  
CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE.