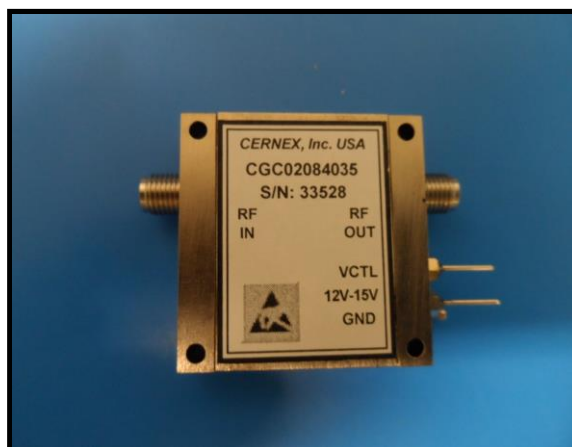


## Gain Control Amplifiers

### FEATURES:

- ❖ Coverage From 0.5 to 26.5 GHz
- ❖ 10-20dB of Gain Control
- ❖ Small Signal Gain of 18-45dB
- ❖ Compact Thin-Film Construction
- ❖ 0-5 Volts @ 20mA Typical



### DESCRIPTION:

### CGC Series

Cernex's CGC series provides 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) Min	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) Typ	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	MK4-1
CGCU5024025	0.5-2.0	40	20	1.50	2.5	3.5	15	12	2:1	320	MK4-1
CGCU5044030	0.5-4.0	40	20	2.00	2.75	3.75	15	12	2:1	320	MK4-1
CGC01184040	1-18	40	20	3.00	4.0	5.0	15	12	2.3:1	450	MK4-1
CGC01264045	1-26.5	40	20	3.50	4.5	5.5	10	8	2.3:1	350	MK4-1
CGC01404060	1-40	40	20	5.00	6.0	7.0	10	8	2.3:1	450	MK4-1
CGC02042520	2-4	25	10	0.75	2.0	3.0	15	12	2:1	180	MK4-1
CGC02044020	2-4	40	20	1.50	2.0	4.0	15	12	2:1	360	MK4-1
CGC02062530	2-6	25	10	1.0	3.0	4.0	15	12	2:1	180	LN5-1
CGC02064030	2-6	40	20	2.0	3.0	4.0	15	12	2:1	360	MK4-1
CGC02082535	2-8	25	10	2.0	3.5	4.5	15	12	2:1	250	MK4-1
CGC02084035	2-8	40	20	3.0	3.5	4.5	15	12	2:1	360	MK4-1
CGC02504070	2-50	40	20	4.0	6.0	7.0	10	8	2.5:1	300	MK4-1
CGC04082530	4-8	25	10	1.0	3.0	4.0	15	12	2:1	180	MK4-1
CGC04084030	4-8	40	20	1.75	3.0	4.0	15	12	2:1	350	MK4-1
CGC04122540	4-12	25	10	1.5	4.0	5.0	15	12	2:1	180	MK4-1
CGC04124040	4-12	40	20	2.5	4.0	5.0	15	12	2:1	360	MK4-1
CGC05152545	5-15	25	10	1.5	4.5	5.5	15	12	2:1	180	MK4-1
CGC05154045	5-15	40	20	2.5	4.5	5.5	15	12	2:1	360	MK4-1
CGC06182550	6-18	25	10	1.5	5.0	6.0	15	12	2:1	180	MK4-1



## Gain Control Amplifiers

Model Number	Frequency Range (GHz)	SS Gain w/o Gain Control (dB) Min.	Gain Control Range (dB) Min	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) Typ	With No Gain Control (dBm) Min.	@ Max. Gain Control (dBm) Min.			
CGC06184050	6-18	40	20	2.5	5.0	6.0	15	12	2:1	360	MK4-1
CGC08202560	8-20	25	10	1.5	6.0	7.0	15	12	2:1	250	MK4-1
CGC08204060	8-20	40	20	2.5	6.0	8.0	15	12	2:1	450	MK4-1
CGC17223040	17-22	30	20	1.5	4.0	5.0	12	10	2:1	250	MK4-1
CGC18262560	18-26.5	25	10	3.0	6.0	7.0	13	10	2:1	250	MK4-1
CGC18264060	18-26.5	40	20	3.0	6.0	7.0	13	10	2:1	350	MK4-1
CGC18402560	18-40	25	10	4.5	6.0	7.0	13	10	2.5:1	250	MK4-1
CGC18404060	18-40	40	20	4.5	6.0	7.0	13	10	2.5:1	350	MK4-1
CGC26402560	26.5-40	25	10	4.0	6.0	7.0	13	10	2:1	250	MK4-1
CGC26404060	26.5-40	40	20	4.0	6.0	7.0	13	10	2:1	350	MK4-1
CGC40604070	40-60	40	20	4.5	7.0	8.0	8	6	2.5:1	350	MCV4-1

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