

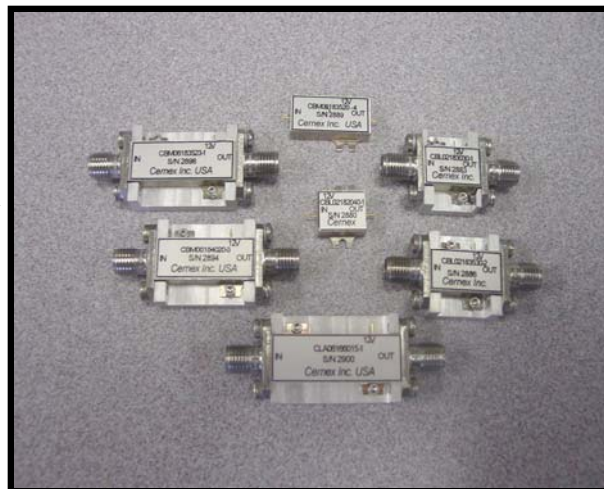
## Gain Slope Amplifiers

### FEATURES:

- ❖ Coverage From 0.1 to 40 GHz
- ❖ Solid Design
- ❖ MIC Thin Film & MIMIC Design for High Reliability
- ❖ Optimum Compensation Techniques
- ❖ -55°C to 85°C

### APPLCATIONS:

- ❖ Telecommunications
- ❖ Laboratory Use
- ❖ Radars



### DESCRIPTIONS:

### CGS Series

Cernex's CGS series Amplifiers use a special technique to control a different gain level from the low end to the high end frequency bands in the negative slopes. The low end frequency bands will have 5db and 10db higher gain than the high end frequency bands.

### SPECIFICATIONS:

Model Number	Frequency Range (GHz)	Gain (dB) @ Low End. Typ.	Gain (dB) @ High End Typ.	SS Flatness (+/-dB) Max.	Gain Slope (dB) Typ.	P1dB (dBm) Min.	VSWR In/Out Max.	Current @ 12-15 VDC (mA) Typ.	Case Type
CGSU5023505	0.5-2	35	30	1.25	5	12	2.0:1	200	HNS5
CGSU5024010	0.5-2	40	30	1.50	10	12	2.0:1	350	HNS5
CGSU5043505	0.5-4	35	30	1.50	5	12	2.0:1	200	HNS5
CGSU5044010	0.5-4	40	30	1.75	10	12	2.0:1	350	HNS5
CGS01183505	1-18	35	30	3.00	5	10	2.3:1	350	HNS5
CGS01184010	1-18	40	30	3.25	10	10	2.3:1	450	HNS5
CGS01263505	1-26.5	35	30	3.25	5	10	2.3:1	350	HNS5
CGS01264010	1-26.5	40	30	3.50	10	10	2.3:1	450	HNS5
CGS01403505	1-40	35	30	3.50	5	10	2.3:1	350	HNS5
CGS01404010	1-40	40	30	3.75	10	10	2.3:1	450	HNS5
CGS02063505	2-6	35	30	1.50	5	12	2.0:1	250	HNS5
CGS02064010	2-6	40	30	1.50	10	12	2.0:1	350	HNS5
CGS02083505	2-8	35	30	1.50	5	12	2.0:1	250	HNS5
CGS02084010	2-8	40	30	1.50	10	12	2.0:1	350	HNS5
CGS02183505	2-18	35	30	2.50	5	12	2.2:1	500	HNS5
CGS02184010	2-18	40	30	2.50	10	12	2.2:1	550	HNS5
CGS02503505	2-50	35	30	4.00	5	10	2.5:1	300	MVC4

## Gain Slope Amplifiers

Model Number	Frequency Range (GHz)	Gain (dB) @ Low End Typ.	Gain (dB) @ High End Typ.	SS Flatness (+/-dB) Max.	Gain Slope (dB) Typ.	P1dB (dBm) Min.	VSWR In/Out Max.	Current @ 12-15 VDC (mA) Typ.	Case Type
CGS04123505	4-12	35	30	1.50	5	12	2.0:1	250	HNS5
CGS04124010	4-12	40	35	1.75	10	12	2.0:1	350	HNS5
CGS05153505	5-15	35	30	1.50	5	12	2.0:1	250	HNS5
CGS05154010	5-15	40	30	1.75	10	12	2.0:1	350	HNS5
CGS06183505	6-18	35	30	2.00	5	12	2.0:1	300	HNS5
CGS06184010	6-18	40	30	2.00	10	12	2.0:1	400	HNS5
CGS08203505	8-20	35	30	2.00	5	12	2.0:1	300	HNS5
CGS08204010	8-20	40	30	2.00	10	12	2.0:1	400	HNS5
CGS18263505	18-26.5	35	30	2.50	5	12	2.0:1	300	HNS5
CGS18264010	18-26.5	40	30	2.50	10	12	2.0:1	400	HNS5
CGS26403505	26.5-40	35	30	3.00	5	10	2.5:1	300	HNS5
CGS26404010	26.5-40	40	30	3:00	10	10	2.5:1	400	HNS5
CGS40603505	40-60	35	30	3.00	5	8	2.5:1	400	MV3