

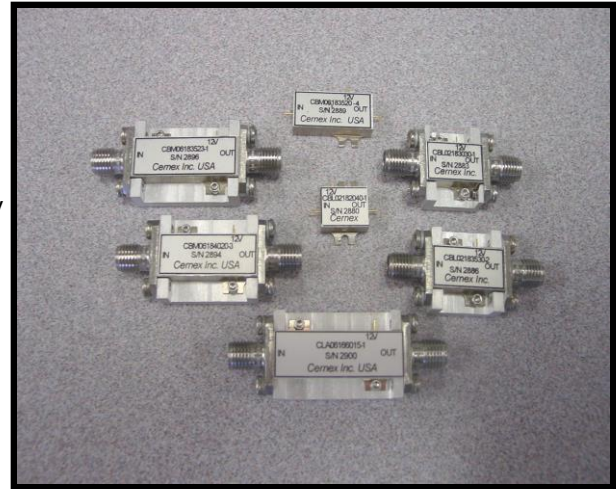
Temperature Compensated Amplifiers

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

APPLICATIONS:

- ❖ Gain Variations as function of Temperature
- ❖ Laboratory Use



DESCRIPTIONS:

CTA Series

Cernex's CTA series Amplifiers have two different techniques to compensate the gain variations. The first one is done with PIN diode attenuator or FET. The second one is done with Bias current compensation.

SPECIFICATIONS:

Model Number	Frequency Range (GHz)	Gain (dB) Min.	SS Flatness (+/-dB) Max.	NF (dB) Max.	P1dB (dBm) Min.	VSWR In/Out Max.	Current @ 12-15 VDC (mA) Typ.	Case Type
CTAU5023512	0.5-2	35	1.25	2.50	12	2.0:1	200	HNS5
CTAU5023520	0.5-2	35	1.50	2.75	20	2.0:1	350	HNS5
CTAU5043512	0.5-4	35	1.50	2.75	12	2.0:1	200	HNS5
CTAU5043520	0.5-4	35	1.75	3.00	20	2.0:1	350	HNS5
CTA0118353510	1-18	35	3.00	5.75	10	2.3:1	350	HNS5
CTA01183510	1-18	35	3.25	6.00	15	2.3:1	450	HNS5
CTA01263510	1-26.5	35	3.25	6.00	10	2.3:1	350	HNS5
CTA01263515	1-26.5	35	3.50	6.25	15	2.3:1	450	HNS5
CTA01403510	1-40	35	3.50	6.25	10	2.3:1	350	HNS5
CTA01403515	1-40	35	3.75	6.50	15	2.3:1	450	HNS5
CTA02063512	2-6	35	1.50	3.00	12	2.0:1	250	HNS5
CTA02063520	2-6	35	1.50	3.25	20	2.0:1	350	HNS5
CTA02083512	2-8	35	1.50	3.50	12	2.0:1	250	HNS5
CTA02083520	2-8	35	1.50	3.75	20	2.0:1	350	HNS5
CTA02183512	2-18	35	2.50	5.00	12	2.2:1	500	HNS5
CTA02183520	2-18	35	2.50	5.25	20	2.2:1	550	HNS5
CTA02503505	2-50	35	4.00	7.00	5	2.5:1	300	MVC4
CTA02503510	2-50	35	4.25	7.00	10	2.5:1	400	MVC4
CTA04123512	4-12	25	1.50	4.00	12	2.0:1	250	HNS5



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CTA04123520	4-12	35	1.75	4.00	20	2.0:1	350	HNS5
CTA05153512	5-15	35	1.50	4.00	12	2.0:1	250	HNS5
CTA05153520	5-15	35	1.75	4.25	20	2.0:1	350	HNS5
CTA06183512	6-18	35	2.00	4.50	12	2.0:1	300	HNS5
CTA06183520	6-18	35	2.00	4.75	20	2.0:1	400	HNS5
CTA08203512	8-20	35	2.00	5.00	12	2.0:1	300	HNS5
CTA08203520	8-20	35	2.00	5.25	20	2.0:1	400	HNS5
CTA18263510	18-26.5	35	2.50	5.50	10	2.0:1	300	HNS5
CTA18263515	18-26.5	35	2.50	5.75	15	2.0:1	400	HNS5
CTA26403510	26.5-40	35	3.00	6.00	10	2.5:1	300	HNS5
CTA26403515	26.5-40	35	3:00	6.25	15	2.5:1	400	HNS5
CTA40603508	40-60	30	3.00	7.00	8	2.5:1	400	MV3

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