

Temperature Compensated Amplifiers

FEATURES:

- ❖ Coverage From 0.1 to 50 GHz
- ❖ Solid Design
- ❖ MIC Thin Film & MIMIC Design for High Reliability
- ❖ Optimum Compensation Techniques
- ❖ -55°C to +85°C



APPLCATIONS:

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

DESCRIPTIONS:

CTA Series

Cernex's CTA series Amplifiers have two different techniques to compensate for gain variations. The first is done with PIN diode attenuator or FET. The second 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	4.00	12	2.0:1	200	HNS5
CTAU5023520	0.5-2	35	1.50	4.00	20	2.0:1	350	HNS5
CTAU5043512	0.5-4	35	1.50	4.50	12	2.0:1	200	HNS5
CTAU5043520	0.5-4	35	1.75	4.50	20	2.0:1	350	HNS5
CTA01183510	1-18	35	3.00	8.25	10	2.3:1	350	HNS5
CTA01183515	1-18	35	3.25	8.25	15	2.3:1	450	HNS5
CTA01263510	1-26.5	35	3.25	8.50	10	2.3:1	350	MKS4
CTA01263515	1-26.5	35	3.50	8.50	15	2.3:1	450	MKS4
CTA01403510	1-40	35	3.50	9.00	10	2.3:1	350	MKS4
CTA01403515	1-40	35	3.75	9.00	15	2.3:1	450	MKS4
CTA02063512	2-6	35	1.50	4.00	12	2.0:1	250	HNS5
CTA02063520	2-6	35	1.50	4.00	20	2.0:1	350	HNS5
CTA02083512	2-8	35	1.50	5.00	12	2.0:1	250	HNS5
CTA02083520	2-8	35	1.50	5.00	20	2.0:1	350	HNS5
CTA02183512	2-18	35	2.50	8.00	12	2.2:1	500	HNS5
CTA02183520	2-18	35	2.50	8.00	20	2.2:1	550	HNS5
CTA02503505	2-50	35	4.00	9.00	5	2.5:1	300	MVCS4
CTA02503510	2-50	35	4.25	9.00	10	2.5:1	400	MVCS4



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CTA04122512	4-12	25	1.50	5.00	12	2.0:1	250	HNS5
CTA04123520	4-12	35	1.75	5.00	20	2.0:1	350	HNS5
CTA05153512	5-15	35	1.50	5.50	12	2.0:1	250	HNS5
CTA05153520	5-15	35	1.75	5.50	20	2.0:1	350	HNS5
CTA06183512	6-18	35	2.00	6.00	12	2.0:1	300	HNS5
CTA06183520	6-18	35	2.00	6.00	20	2.0:1	400	HNS5
CTA08203512	8-20	35	2.00	6.50	12	2.0:1	300	HNS5
CTA08203520	8-20	35	2.00	6.50	20	2.0:1	400	HNS5
CTA18263510	18-26.5	35	2.50	7.00	10	2.0:1	300	MKS4
CTA18263515	18-26.5	35	2.50	7.00	15	2.0:1	400	MKS4
CTA18403510	18-40	35	3.25	8.50	10	2.5:1	400	MKS4
CTA18403515	18-40	35	3.25	8.50	15	2.5:1	400	MKS4
CTA26403510	26.5-40	35	3.00	8.50	10	2.5:1	300	MKS4
CTA26403515	26.5-40	35	3.00	8.50	15	2.5:1	400	MKS4
CTA40603508	40-60	30	3.00	9.00	8	2.5:1	400	MVCS4

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