

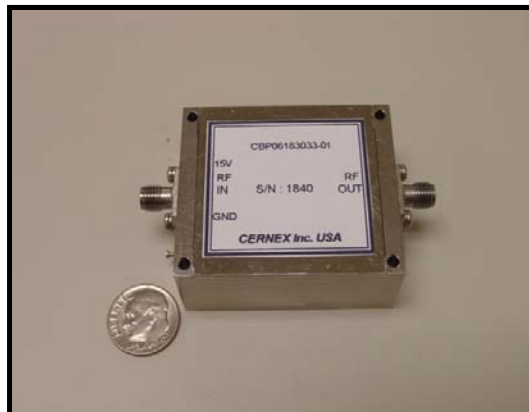
Broadband High Power Amplifiers (GaN)

FEATURES:

- ❖ Coverage From 0.02 to 18.0 GHz (Octave/Multi-octave)
- ❖ Up To 100 Watt Output Power (@Psat)
- ❖ Single Bias Power Supply
- ❖ Compact Thin-Film and Package Construction
- ❖ Economically Priced

APPLICATIONS:

- ❖ General High Power Laboratory RF Sources.
- ❖ Output Amplifiers in test Equipment (ATE & AGE)
- ❖ Driver Amplifiers in RF Distribution Networks
- ❖ Driver Amplifiers for TWTAs
- ❖ UAV & UGV



CBP (GaN) Series

DESCRIPTION:

Cernex's **CBP GaN series** amplifiers are designed for use in a wide range of general purpose applications such as laboratory test equipment, instrumentation and other applications requiring high power output. Reliable operation is achieved using rugged stripline circuit construction with selected GaN devices.

SPECIFICATIONS:

Model Number	Frequency Range (GHz)	Gain (dB) Min. ***	SS Flatness (+/-dB) Max.	NF (dB) Max.	Psat (dBm) Min.	VSWR In/Out Max.	Voltage(V) Current(A) Typ. **	Case Type (Inches)	ECCN
CBPGV2033037	0.02-3.5	30	3.00	8.0	37 Typ	2/2.5:1 Typ	28V, 1.0A	-	EAR99
CBPGV2064543	0.02-6.0	45	5.00/7.00	-	25W Typ	2:1 Typ	60V, 2.5A	-	EAR99
CBPGU5023541	0.5-2.0	35	1.50	8.0	41 Typ	2:1	28V, 2.0A	3.4x3.0x1.0	EAR99
CBPGU5024043	0.5-2.0	40	2.00	8.0	43 Typ	2:1	28V, 4.0A	5.4x3.5x1.0	EAR99
CBPGU5023039	0.5-2.5	30	1.50	8.0	39 Typ	2:1 Typ	38V, 1.0A	-	EAR99
CBPGU5064035	0.5-6.0	40	2.00	8.0	35 Typ	2/2.5:1 Typ	28V, 1.0A	SN8	EAR99
CBPGU5064037	0.5-6.0	40	2.50	8.0	37 Typ	2:1 Typ	28V, 2.0A	DN10	EAR99
CBPGU5064539	0.5-6.0	45	3.00	8.0	39 Typ	2:1 Typ	28V, 4.0A	QNC15	EAR99
CBPGU5064543	0.5-6.0	45	3.5	8.0	43	2:1 Typ	50V, 2.7A	3.2X1.4X0.8	EAR99
CBPG02064040	2.0-6.0	40	-	8.0	40	2/2.5:1	28V, 1.5A	-	EAR99
CBPG02064543	2.0-6.0	45	-	8.0	43	2/2.5:1	28V, 4.0A	-	EAR99
CBPG02064643	2.0-6.0	46	3.00	8.0	43	2/2.5:1	50V, 2.0A	-	EAR99
CBPG02065045	2.0-6.0	50	3.00	8.0	45	2/2.2:1	50V, 4.0A	-	3A001.b.4.b
CBPG02065046	2.0-6.0	50	-	8.0	46	2/2.2:1	28V, 8.0A	-	3A001.b.4.b
CBPG02065047	2.0-6.0	50	3.50	8.0	47	2:1	50V, 8.0A	-	3A001.b.4.b



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CBPG02183537	2.0-18.0	35	-	8.0	37	2:1	32V, 2A	-	ITAR
CBPG02184039	2.0-18.0	40	-	8.0	39	2:1	32V, 2.8A	-	ITAR
CBPG02184539	2.0-18.0	45	3.00	8.0	39	2:1	35V, 2.5A	-	ITAR
CBPG02184341	2.0-18.0	43	3.50	8.0	41	2:1	35V, 5.0A	-	ITAR
CBPG02184043	2.0-18.0	40	4.00	8.0	43	2:1	35V, 10A	-	ITAR
CBPG06124541	6.0-12.0	45	3.00	8.0	41		28V,3.0A	-	ITAR
CBPG06124543	6.0-12.0	45	3.00	8.0	43		28V,5.0A	-	ITAR
CBPG06125045	6.0-12.0	50	3.0	8.0	45		28V, 9.0A	-	ITAR
CBPG06184039	6.0-18.0	40	3.00	8.0	39	2:1	32V, 2.8A	-	ITAR
CBPG06184241	6.0-18.0	42	3.00	8.0	41	2:1	35V, 5.0A	-	ITAR
CBPG06184447	6.0-18.0	44	6.00	-	47	2.0:1	28V,15W	-	ITAR
CBPG06184543	6.0-18.0	45	3.00	8.0	43	2:1	35V, 10A	-	ITAR
CBPG06185045	6.0-18.0	50	3.00	8.0	45	2:1	35V, 20A	-	ITAR
CBPG07114543	7.8-11.0	45	2.00	8.0	43	2:1	28V, 2.8A	-	3A001.b.4.b
CBPG07115046	7.8-11.0	50	2.00	8.0	46	2:1	28V, 5.5A	-	3A001.b.4.b
CBPG07115048	7.8-11.0	50	2.00	8.0	48	2:1	28V, 11.5A	-	3A001.b.4.b
CBPG08113545	8.0-11.0	35	1.50	8.0	45 Typ	2/4:1 Typ	28V, 4.0A	-	3A001.b.4.b
CBPG08114047	8.0-11.0	40	2.00	8.0	47 Typ	2/2:1 Typ	28V, 8.0A	-	3A001.b.4.b

ALL THE ABOVE SPECIFICATIONS ARE @ 25°C

OTHER FREQUENCY BANDS & HIGHER POWER ARE ALSO AVAILABLE.

TEMPERATURE COMPENSATED AMPLIFIERS & GAIN CONTROL ARE ALSO AVAILABLE

*CONSULT THE FACTORY

**@SMALL SIGNAL

*** GAIN WINDOW IS 10dB

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE.