

## Broadband Bench Top Amplifier (Low Noise & Power)

### FEATURES:

- ❖ Coverage From 75 KHz to 75 GHz
- ❖ (Octave/Multi-octave)
- ❖ Up To Low Output Power @ P1dB

### APPLICATIONS:

- ❖ General High Power Laboratory RF Sources
- ❖ Output Amplifiers In Test Equipment (ATE & AGE)
- ❖ RF Sources For Field Test



**CBM, CBP, CBL Series**

### DESCRIPTION:

Cernex's BenchTop Amplifiers are designed for use in a wide range of general purpose applications such as laboratory test equipment, instrumentation and other applications. Reliable operation is achieved using rugged stripline circuit construction with selected GASFETs, PHEMTs, and MIMICs.

### SPECIFICATIONS: BROADBAND LOW NOISE AMPLIFIERS

Model Number	Frequency Range (GHz)	Gain (dB) Min.	SS Flatness (+/-dB) Min. Max.	NF (dB) Max.	P1dB (dBm) Min.	VSWR In/Out Max.	110-220VAC AC/Power (W) Typ	Case Type (Inches)
CBL01403060B	1-40	30	5.0	6.0	10	2.25:1	15	7.48x6.22x2.78
CBL01403345B	1-40	33	2.5	4.5*	10	2:1 Typ	15	7.48x6.22x2.78
CBL02503055B	2-50	30	4.0	5.5	5	2.5:1	15	7.48x6.22x2.78

\*NF BELOW 2 GHZ WILL BE WORST, 5DB TYP @ 1GHZ

### SPECIFICATIONS: BROADBAND GENERAL PURPOSE AMPLIFIERS

Model Number	Frequency Range (GHz)	Small Signal Gain (dB) Min.	Output Power		Input/Output Match (dB) Typ.	110-220VAC A/C/Power (W) Typ	Case Type
			Vpp Min.	dBm Min			
CBMV7201821B	75KHz – 20.0Ghz	18	+7.0	21	-10/-10	20	7.48x6.22x2.78
CBMV7452021B	75KHz – 45.0Ghz	20	+7.0	21	-10/-10	20	7.48x6.22x2.78
CBMV7502018B	75KHz – 50.0Ghz	20	+5.0	18	-10/-10	20	7.48x6.22x2.78
CBMV7552018B	75KHz – 55.0Ghz	20	+5.0	18	-10/-10	20	7.48x6.22x2.78
CBMV7602016B	75KHz – 60.0Ghz	20	+4.0	16	-10/-10	20	7.48x6.22x2.78
CBMV7652016B	75KHz – 65.0Ghz	20	+4.0	16	-10/-10	20	7.48x6.22x2.78



### SPECIFICATIONS: BROADBAND MEDIUM POWER AMPLIFIERS

Model Number	Frequency Range (GHz)	Gain (dB) Min.	SS Flatness (+/-dB) Min. Max.	NF (dB) Max.	P1dB (dBm) Min.	VSWR In/Out Max.	110-220VAC A/C Power (W) Typ	Case Type
CBMU5043030B	0.5-4	30	3.00	6.00	30	2.5:1	25	7.48x7.0x4.53
CBM02203030B	2-20	30	6.0	8.0	30	2.5:1	55	7.48x7.0x4.53
CBM05153830B	5-15	38	3.50	7.00	30	2:1	35	7.48x7.0x4.53
CBM06183030B	6-18	30	3.00	10.00	30	2:1	40	7.48x7.0x4.53
CBM18263030B	18-26.5	30	3.00	7.0	30	2:1	55	7.48x7.0x4.53
CBM18403327B	18-40	33	3.50	10.0	27	2:1Typ	45	7.48x7.0x4.53
CBM26403527B	26.5-40	35	4.0Typ	10.0	27Psat	2.5:1	65	7.48x7.0x4.53
CBM36403530B	36-40	35	3.50	10.0	30	2:1	60	7.48x7.0x4.53

### SPECIFICATIONS: BROADBAND POWER AMPLIFIERS

Model Number	Frequency Range (GHz)	Gain (dB) Min.	SS Flatness (+/-dB) Min. Max.	NF (dB) Max.	P1dB (dBm) Min.	VSWR In/Out Max.	110-220VAC A/C Power (W) Typ	Case Type
CBPU8043530B	0.8-4.2	35	2.0	-	30	2:1	25	7.48x7.0x4.53
CBP01023537B	1.0-2.0	35	2.00	8	37	2:1	55	7.48x7.0x4.53
CBP02043533B	2.0-4.0	35	1.50	6	33	2:1	30	7.48x7.0x4.53
CBP02043035B	2.0-4.0	30	2.00	8	35	2:1	40	7.48x7.0x4.53
CBP02043537B	2.0-4.0	35	2.00	8	37	2:1	60	7.48x7.0x4.53
CBP02044033B	2.0-4.0	40	2.25	5.00	33	2:1	30	7.48x7.0x4.53
CBP02063535B	2.0-6.0	35	3.00	7	35	2:1	45	7.48x7.0x4.53
CBP02083033B	2.0-8.0	30	2.50	6	33	2:1	45	7.48x7.0x4.53
CBP02123533B	2.0-12.0	35	4.0	4	33	2:1	75	7.48x7.0x4.53
CBP02183030B	2.0-18.0	30	2.5 Typ	5	30	2:1	55	7.48x7.0x4.53
CBP02203031B	2.0-20.0	30	5.5	8	31	2.5:1	60	7.48x7.0x4.53
CBP03123032B	3.7-12.0	30	2.50	6	32	2:1	35	7.48x7.0x4.53
CBP03123034B	3.7-12.0	30	3.00	6	34	2:1	45	7.48x7.0x4.53
CBP04082833B	4.0-8.0	28	2.25	6.00	33	2:1	40	7.48x7.0x4.53
CBP04083535B	4.0-8.0	35	2.0	3.0	35	2:1	60	7.48x7.0x4.53
CBP04083537B	4.0-8.0	35	3.00	8	37	2:1	90	7.48x7.0x4.53
CBP05153032B	5.0-15.0	30	2.50	6	32	2:1	55	7.48x7.0x4.53
CBP05153534B	5.0-15.0	35	3.00	6	34	2:1	75	7.48x7.0x4.53
CBP06183033B	6.0-18.0	30	3.50	6	33	2:1	60	7.48x7.0x4.53
CBP08123333B	8.0-12.0	33	1.50	5	33	2:1	45	7.48x7.0x4.53
CBP08123035B	8.5-12.5	30	2.0	8	35	2:1	75	7.48x7.0x4.53
CBP08123535B	8.0-12.0	35	2.00	8	35	2:1	75	7.48x7.0x4.53

CONTACT THE FACTORY FOR OTHER FREQUENCIES AND DIFFERENT POWER LEVELS.  
CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE.