

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) 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 Vpp Min.	Output Power dBm Min	Input/Output Match (dB) Typ.	110-220VAC A/C/Power (W) Typ	Case Type
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) 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) 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.

*GAIN WINDOW IS 10dB

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE.