

## Broadband VHF & UHF High Power Amplifiers

### FEATURES:

- ❖ Coverage From 0.15 MHz to 2500 MHz
- ❖ Up To 300 Watt Output Power (@1dB Compression Point)
- ❖ Single Bias (+28VDC) Power Supply
- ❖ Compact Construction
- ❖ Economically Priced

### APPLICATIONS:

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



**CBP Series**

### DESCRIPTION:

Cernex's **CBP 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 and PCB construction.

### SPECIFICATIONS:

Model Number	Frequency Range (MHz)	Gain (dB) Min.	Gain Flatness (±dB) Max.	VSWR In/Out Max.	Output power P1dB dBm Min.	DC (V) Typ.	Current @28 VDC (A) Typ.	Case Size (HxWxD) (mm)
CBPK1U15654E	0.01-175	56	2.0	2:1/2:1	54.5	28	85(Max)	*
CBPK1U21648E	0.01-230	16	2.0	2:1/2:1	48	28	16(Max)	*
CBPK1U54442E	0.01-500	44	2.0	*	42	28	4.0	178 x 127 x 32
CBPL1U21648E	0.15-230	16	1.5	2:1/2:1	48	28	16(Max)	*
CBPL1U21653E	0.15-230	16	1.5	2:1/2:1	53	28	40(Max)	*
CBPL1U23635E	0.15-230	36	1.5	2:1/2:1	35	28	2.0	152 x 76 x 28
CBPL1U24039E	0.15-230	40	1.5	2:1/2:1	39	28	2.0	152 x 76 x 25
CBPL1U24443E	0.15-230	44	1.5	*	43	28	4.5(Max)	163 x 86 x 28
CBPL1U24645E	0.15-250	46	2.0	*	45	28	7.0	191 x 127 x 31.75
CBPL5014437E	0.5-1000	44	1.5	2:1/2:1	37	28	2.0	163 x 86 x 28
CBPH1U11853E	1-100	18	1.5	*	53	28	25(Max)	211 x 163 x 30
CBPH1U14644E	1-100	46	1.5	2:1/2:1	44.25	28	7(Max)	163 x 86 x 28
CBPH1U15042E	1-100	50	1.5	2:1/2:1	42.5	28	14(Max)	168 x 147 x 25
CBPH1U24443E	1-250	44	1.5	2:1/2:1	43	28	3.0	163 x 86 x 28
CBPH1U52449E	1-500	24	1.5	2:1/2:1	49.5	28	24(Max)	183 x 175 x 28
CBPH1U53420E	1-500	34	1.5	*	20	24	1.0	88.9 x 63.5 x 21.6
CBPH1U53537E	1-500	35	1.5	2:1/2:1	37 Psat	*	2.5(Max)	89 x 64 x 22
CBPH1U54039E	1-500	40	1.5	2:1/2:1	39	28	2.0	152 x 76 x 25
CBPH1U54443E	1-500	44	1.5	2:1/2:1	43	28	6(Max)	163 x 86 x 28



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CBPH1U54240E	1-520	42	1.5	*	40	28	2.0	101 x 63.5 x 26.8
CBPH1013032E	1-1000	30	1.5	2:1/2:1	32	28	1.0	152 x 76 x 25
CBPH1013234E	1-1000	32	1.0	2:1/2:1	34.75	28	2.0	163 x 86 x 28
CBPH1015249E	1-1000	52	2.0	2:1/2:1	49	28	70(Max)	*
CBPH1V34343S	1.5-30	43	2.0	1.5:1/2:1	43	12	*	70 x 55 x 25
CBPH1V34040S	1.5-30	40	2.0	1.5:1/2:1	40	28	*	70 x 55 x 25
CBPH1V31557S	1.5-30	15	2.0	2:1/2:1	57	50	*	240 x 180 x 40
CBPH1U13456E	1.5-110	34	1.5	*	56	28	57	246 x 208 x 31.75
CBPV1U54240E	10-500	42	1.5	2:1/2:1	40	28	2.2	3.7X2.34X1.06
CBPV1013020E	10-1000	30	1.5	2:1/2:1	20	28	0.35	81 x 60 x 21
CBPV1014039E	10-1000	40	1.5	*	39	28	2.5	163 x 86 x 28
CBPV1014641E	10-1000	46	1.5	*	41	28	6.0(Max)	163 x 86 x 28
CBPV2U21252S	20-200	12	2.0	2:1/2:1	52	28	*	100 x 75 x 25
CBPV2U21250S	20-200	12	2.0	2:1/2:1	50	28	*	100 x 75 x 25
CBPV2U21040S	20-200	10	2.0	2:1/2:1	40	28	*	70 x 55 x 20
CBPV2U52251E	20-500	22	2.0	2:1/2:1	51.5	28	24	216 x 198 x 28
CBPV2U52448E	20-500	24	1.5	*	48	28	10	163 x 86 x 28
CBPV2U54442E	20-500	44	1.5	2:1/2:1	42.5	28	5.0(Max)	163 x 86 x 28
CBPV2U54645E	20-500	46	1.5	*	45	28	8.0(Max)	163 x 86 x 28
CBPV2U54039E	20-520	40	1.5	*	39	28	1.25(Max)	101 x 63.5 x 31.75
CBPV2U54647E	20-520	46	1.5	*	47	28	8.0	163 x 86 x 28
CBPV2U55049E	20-520	50	1.0	*	49	28	12	152 x 64 x 38
CBPV2U55050E	20-520	50	1.5	*	50	28	1.0(Max)	163 x 86 x 28
CBPV2014240E	20-1000	42	2.0	*	40	*	1.5	101 x 63.5 x 27.9
CBPV2014640E	20-1000	46	2.0	*	40	28	4.0(Max)	163 x 86 x 28
CBPV2014443E	20-1000	44	2.0	*	43	28	6.5(Max)	163 x 86 x 28
CBPV2014846E	20-1000	48	2.0	*	46	28	9.0(Max)	163 x 86 x 28
CBPV2015050E	20-1000	50	2.0	2:1/2:1	50	28	28	10 x 7.3 x 11
CBPV2024439E	20-2500	44	2.0	*	39	28	7.0	8.5 x 6.75 x 1.25
CBPV3V83837S	30-88	38	2.0	1.5:1/2:1	37	28	*	70 x 55 x 20
CBPV3V81350S	30-88	13	2.0	2:1/2:1	50	28	*	100 x 75 x 25
CBPV3V81353S	30-88	13	2.0	2:1/2:1	53	28	*	100 x 75 x 25
CBPV3U51348S	30-512	13	3.0	2:1/2:1	48	28	*	100 x 75 x 25
CBPV3U52150S	30-512	21	3.0	2:1/2:1	50	28	12	120 x 75 x 20
CBPV3U51055S	30-512	10	3.0	2:1/2:1	55	28	32	220 x 180 x 35
CBPV3014441	30-1000	44	1.5	2:1/2:1	41	28	5.5(Max)	163 x 86 x 28
CBPU1U54343S	100-500	43	3.0	2:1/2:1	43	28	*	120 x 75 x 20
CBPU1U51250S	100-500	12	3.0	2:1/2:1	50	28	*	100 x 75 x 20
CBPU1U51255S	100-500	12	3.0	2:1/2:1	55	28	*	220 x 170 x 35
CBPU2U51248S	225-512	12	2.0	2:1/2:1	48	28	*	100 x 75 x 20



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CBPU2U52150S	225-512	21	1.5	2.1/2.1	50	28	13	120 X 75 X 20
CBPU2U51055S	225-512	10	2.0	2:1/2:1	55	28	*	220 x 170 x 35

OTHER FREQUENCY BANDS & HIGHER POWER ARE ALSO AVAILABLE

\*CONSULT THE FACTORY \*\*VDC is 28V

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE