

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
CBPH2U54045	20-500	40	1.5	2:1/2:1	45	28	4	120 x 75 x 25
CBPH2014040	20-1000	40	2.0	2:1/2:1	40	28	3	120 x 75 x 25
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



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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
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