

Narrow Band VHF & UHF High Power Amplifiers

FEATURES:

- ❖ Coverage From 0.5 to 500.0 MHz
- ❖ Up to 200 Watt Output Power (at 1dB Compression Point)
- ❖ Single Bias (+28VDC) Power Supply
- ❖ Rugged Construction
- ❖ Economically Priced



DESCRIPTION:

CNP Series

Cernexwave manufactures a solid-state class AB linear design of VHF & UHF high power linear applications.

This amplifier utilizes push-pull MOSFET power devices that provide high gain, wide dynamic range, low distortions and good linearity. Exceptional performance, long term reliability and high efficiency are achieved by employing advanced broadband RF matching networks and combining techniques, EMI/RFI filters, and qualified components.

SPECIFICATIONS:

Model Number	Frequency Range (MHz)	Gain (dB) Min.	SS Flatness (+/-dB) Max.	NF (dB) Max.	P1dB (dBm) Min.	IP3 (dBm) Typ.	VSWR In/Out Max.	Current @12 VDC (A) Typ.	Case Size (HxWxD) Inches
CNPL1U24541OP	0.15-230	43	1.5	*	41	48	2:1 (In)	5.0**	6 x 3 x 1.1
CNPV2U13635	20-100	36	1.0	10	35	47	2:1	1.0**	6.0 x 3.0 x 1.0
CNPV2U15252	20-150	52	1.5	*	52	*	2:1(In)	20**	9.8 x 6.4 x 1.0
CNPV3V84653	30-88	46	1.5	10	53(Typ)	*	2:1	50**	9.8 x 6.4 x 1.0
CNPV3V83837S	30-88	38	2.0	*	37	*	2:1	*	2.7 x 2.1 x 0.7
CNPV3V81350S	30-88	13	2.0	*	50	*	2:1	*	3.9 x 2.9 x 0.9
CNPV3V81353S	30-88	13	2.0	*	53	*	2:1	*	3.9 x 2.9 x 0.9
CNPV7U14543OP	70-108	45	1.5	*	43	50	2:1 (In)	4.0**	6 x 3 x 1.1

ALL SPECIFICATIONS ARE GUARANTEED @ 25°C

OTHER FREQUENCY BANDS & HIGHER POWER ARE ALSO AVAILABLE.

* CONSULT THE FACTORY.

** VDC is 28V.

CERNEXWAVE RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE.