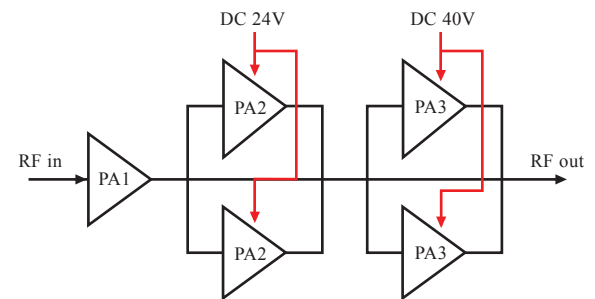


NB6203A UHF Broadband Power Amplifier Module

Incorporating three-stage power amplification, the NB6203A UHF broadband power amplifier module is designed primarily for DTV transmitters. It can be used as the final-stage amplifier in a low-power transmitter, or as the driving amplifier in the mid to high-power applications.

For its featured frequency range, NB6203A can also be used in the analog transmitters and the emergency communication systems. The power gain of NB6203 over UHF can reach more than one octave. This attribute makes it useful in the scientific research applications such as EMI analysis. The enhanced reliability and ruggedness of NB6203A present its utility also in military applications.

- Within frequency range of 470 ~ 862 MHz
 - * Output power 10W, shoulder -43dB, efficiency 15%
 - * Output power 20W, shoulder -40dB, efficiency 20%
 - * Output power 30W, shoulder -33dB, efficiency 24%
 - * Output power 40W, shoulder -29dB, efficiency 28%
- Gain : ≥ 46 dB (400~870MHz)
- Flatness : ± 1.5 dB (400~870MHz)
- Dimension : (L×W×H) 100×120×35mm (include the heatsink)
- RoHS Compliant



Specifications

Parameters	Min	Typ.	Max.	Unit	Note
Frequency	470		862	MHz	
Output Power		20	40	W	DTMB
Gain		46		dB	At 20W output power
Gain Variation		± 1.5		dB	400~870MHz
Input Power		-3	0	dBm	DTMB signal
Shoulder(Without DPD)		-29	-26	dBc	DTMB @40W
Shoulder(Without DPD)		-33	-29	dBc	DTMB @30W
Shoulder(Without DPD)		-40	-36	dBc	DTMB @20W
Shoulder(Without DPD)		-43	-40	dBc	DTMB @10W
Input VSWR			1.2		

Ratings

Parameters	Min	Max.	Unit.	Note
V _{DC} (final-stage)	40	42	V	
V _{DC} (driving)	24	26	V	
Load VSWR		3:1		

