

AV4 BLABBH500/100 200-600 P/N : W144061 EC10		
RF SPECIFICATIONS	CHANNEL H100	CHANNEL BB500
Frequency Range	180 to 600MHz	15 to 600MHz
Linear Gain	49 dB \pm 1dB typ.	57 dB \pm 1dB typ.
Gain Flatness	\pm 1.5dB max.	\pm 3dB max.
Minimum Pulsed Output Power (@ nominal input +4dBm)	100W min. full range	500W min. 20-600MHz 400W min. below 20MHz
CW Output Power	25W max. (internal limitation)	50W max. (internal limitation)
Linear Output Power	100W typ. @1dB compression	400W typ. @1dB compression
Linearity	\pm 1dB to 100W typ.	+1.5dB / -1dB to 500W typ.
Amplifier Biasing	Class AB Operation	Class AB Operation
Blanking Delay	1 μ s min.	1 μ s min.
RF Rise Time V 10%-90%	< 50 ns	< 100 ns above 30MHz < 200 ns below 30MHz
RF Fall Time V 90%-10%	< 30 ns	< 60 ns above 30MHz < 150 ns below 30MHz
DC Ringing	\pm 100mV after 1 μ s	\pm 200mV after 1 μ s
Input Noise Figure	8dB typ.	8dB typ.
Output Noise Power (Unblanked)	-117dBm @1Hz	-109dBm @1Hz
Output Noise Power (Blanked)	Thermal Noise	Thermal Noise
In / Out Impedance	50 Ohms	50 Ohms
Input VSWR	1.6 max (180-200MHz) 1.3 max (200-600MHz)	1.5 max.
Output Harmonics	H2 < -25dBc ; H3 < -15dBc max. at 100W	H2 < -30dBc typ ; H3 < -10dBc max. at 500W; H4 < -45dBc @ 10W
Pulse Width (Int. Limitation)	100ms @100W (Up to CW @25W)	100ms @500W (Up to CW @50W)
Duty Cycle (Int. Limitation)	25% @100W (Up to 100% @25W)	10% @500W (Up to 100% @50W)
Pulse amplitude flatness	\pm 3% typ for 100 ms PW	\pm 3% typ. @ 500W for 100 ms PW
Amplitude Stability vs Temperature	\pm 0.15% / °C max	\pm 0.15% / °C max