

AV4 BLABBH2H500/100/150 200-600 P/N : W144063 EC10			
RF SPECIFICATIONS	CHANNEL H100	CHANNEL BB500	CHANNEL 2H150
Frequency Range	180 to 600MHz	15 to 600MHz	30 to 92MHz
Linear Gain	49dB ±1dB typ. ±1.5dB max.	57dB ±1dB typ. ±3dB max.	50dB ±1dB typ. ±1dB max.
Minimum Pulsed Output Power (@ nominal input +4dBm)	100W min. full range	500W min. 20-600MHz 400W min. below 20MHz	150W min. full range
CW Output Power	25W max. (internal limitation)	50W max. (internal limitation)	15W max. (internal limitation)
Linear Output Power	100W typ. @1dB compression	400W typ. @1dB compression	150W typ. @1dB compression
Linearity	±1dB to 100W typ.	+1.5dB / -1dB to 500W typ.	±1dB to 150W typ.
Amplifier Biasing	Class AB Operation	Class AB Operation	Class AB Operation
Blanking Delay	1µs min.	1µs min.	3 µs min. (due to PIN Switch Commut.)
RF Rise Time V 10%-90%	< 50 ns	< 100 ns above 30MHz < 200 ns below 30MHz	< 500 ns (due to PIN Switch Commut.)
RF Fall Time V 90%-10%	< 30 ns	< 60 ns above 30MHz < 150 ns below 30MHz	< 50 ns
DC Ringing	±100mV after 1µs	±200mV after 1µs	±100mV after 1µs
Input Noise Figure	8dB typ.	8dB typ.	5dB typ.
Output Noise Power (Unblanked)	-117dBm @1Hz	-109dBm @1Hz	-119dBm @1Hz
Output Noise Power (Blanked)	Thermal Noise	Thermal Noise	Thermal Noise
In / Out Impedance	50 Ohms	50 Ohms	50 Ohms
Input VSWR	1.6 max (180-200MHz) 1.3 max (200-600MHz)	1.5 max.	1.3 max.
Output Harmonics	H2 < -25dBc ; H3 < -15dBc max. at 100W	H2 < -30dBc typ ; H3 < -10dBc max. at 500W ; H4 < -45dBc @ 10W	H2 < -25dBc ; H3 < -11 dBc max. at 150W
Pulse Width (Int. Limitation)	100ms @100W (Up to CW @25W)	100ms @500W (Up to CW @50W)	5ms @150W (Up to CW @15W)
Duty Cycle (Int. Limitation)	25% @100W (Up to 100% @25W)	10% @500W (Up to 100% @50W)	10% @150W (Up to 100% @15W)
Pulse amplitude flatness	±3% typ for 100 ms PW	±3% typ. @ 500W for 100 ms PW	±4% typ. @ 150W for 5 ms PW
Amplitude Stability vs Temperature	±0.15% / °C max	±0.15% / °C max	±0.15% / °C max
PIN Diodes Switch			
Isolation 2H OUT vs FO IN	Not Applicable	Not Applicable	Better than 60dB full range
Insertion FO IN vs 2H OUT	Not Applicable	Not Applicable	0.4dB typ