



RF Amplifier Module GammaS Series 5MHz-310MHz

- NMR, MRI, EPR
- RADAR
- Ultrasonics
- Test & Measurement
- RF therapy



Module with optional heatsink and fans

- Rugged, high reliability design
- Excellent phase and amplitude stability
- Compact and easy to use
- Fast pulse rise and fall times
- Low interpulse noise

BTM00300-GammaS

Model number	BTM00300-GammaS
Rated output power	300W PEP minimum in pulsed mode/30W in CW mode
P1dB	240W PEP minimum in pulsed mode
Type	Class AB MOSFET
Frequency	5-310MHz
Gain flatness	±2dB maximum (measured at 1/10th rated output power)
Max.duty cycle	20% in pulsed mode at max.pulse width
Max.pulse width	300ms
Pulse droop	5% maximum
Pulse rise and fall time	<150ns typical using a pre-gated RF input signal
Gate delay	Rising edge: 1µs typical Falling edge: 200ns typical
Harmonics	Odd: -12dBc maximum Even: -20dBc maximum
Spurious	<-70dBc
Output noise (blanked)	<10dB above thermal (1MHz bandwidth)
Phase change/power	20° typical from -40dB to full power
Phase stability	6° across 300ms pulse
DC supply	50V max. at approx. 5A
Input/output impedance	50Ω nominal
Maximum load SWR	Tolerates at least 3:1 @ full rated power without damage External VSWR protection is recommended
Remote interface	9-pin D connector provides Temp monitor, Current monitor, PTT in, Gate in, Gain adjust
Protection	Over-temp, reverse polarity, input/output transients
Connectors	RF input and output: SMA or N-type
Cooling	Requires an adequate heatsink (available as an option)
RF drive	0dBm nominal, +10dBm for no damage CW mode automatically enabled for RF drive <-10dBm approx.
RF gate(blanking)	CMOS/TTL compatible
Physical	120mm x 200mm x 37mm, weight 1.3kg
Compliance	CE

Optional extras: Suitable heatsink, built-in fans