



## RF Amplifier Module Delta Series 200MHz-650MHz

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

- Rugged, high reliability design

- Excellent phase and amplitude stability

- Compact and easy to use

- Fast pulse rise and fall times

- Low interpulse noise

### BTM00100-Delta

<b>Model number</b>	BTM00100-Delta
<b>Rated output power</b>	100W PEP minimum in pulsed mode/15W in CW mode
<b>P1dB</b>	80W PEP minimum in pulsed mode
<b>Type</b>	Class AB MOSFET
<b>Frequency</b>	200-650MHz
<b>Gain flatness</b>	±2dB maximum (measured at 1/10th rated output power)
<b>Max.duty cycle</b>	20% in pulsed mode at max.pulse width
<b>Max.pulse width</b>	300ms
<b>Pulse droop</b>	5% maximum
<b>Pulse rise and fall time</b>	<150ns typical using a pre-gated RF input signal
<b>Gate delay</b>	Rising edge: 1µs typical Falling edge: 200ns typical
<b>Harmonics</b>	Odd: -12dBc maximum Even:-20dBc maximum
<b>Spurious</b>	<-70dBc
<b>Output noise (blanked)</b>	<10dB above thermal (1MHz bandwidth)
<b>Phase change/power</b>	20° typical from -40dB to full power
<b>Phase stability</b>	6° across 300ms pulse
<b>DC supply</b>	28V max. at approx. 5A
<b>Input/output impedance</b>	50Ω nominal
<b>Maximum load SWR</b>	Tolerates at least 3:1 @ full rated power without damage External VSWR protection is recommended
<b>Remote interface</b>	9-pin D connector provides Temp monitor, Current monitor, PTT in, Gate in, Gain adjust
<b>Protection</b>	Over-temp, reverse polarity, input/output transients
<b>Connectors</b>	RF input and output: SMA or N-type
<b>Cooling</b>	Requires an adequate heatsink (available as an option)
<b>RF drive</b>	0dBm nominal, +10dBm for no damage CW mode automatically enabled at RF drive <-10dBm approx
<b>RF gate(blanking)</b>	CMOS/TTL compatible
<b>Physical</b>	120mm x 200mm x 37mm, weight 1.3kg
<b>Compliance</b>	CE