RF AMPLIFIERS
BT-Delta Series
100MHz to 500MHz
1kW

POWER AND PRECISION

The BT-Delta series is a range of class AB pulsed amplifiers covering the 100 to 500MHz frequency range

Available at peak output power levels up to 2000W.

Excellent phase and amplitude stability.

High efficiency
High linearity

Available as stand alone amplifier systems or as plug-in modules for OEMs

Suitable for NMR, MRI, NQR, EPR, pulsed radar, ultrasound systems and other scientific applications

Model number	BT01000-Delta
Peak power at 0dBm drive	1kW minimum
Peak output power @1dB compression	800W minimum
Type	Class AB MOSFET
Frequency	100MHz to 500MHz
Small signal gain	60dB
Gain flatness	±2dB max.
IP_3	+67dBm typ.
Duty cycle	20%max.(higher values available)
Max.pulse width at max. power	10ms (higher values available)
Pulse droop	<0.5dB @ max.pulse width
Harmonics	<-20dBc even , <-10dBc odd measured at 800W peak output power
Spurious	<-60dBC
Rise/fall times	<100ns typical
Output noise (blanked)	<10dB above thermal (1MHz bandwidth)
Noise figure	Approx.10dB
Phase stability	5° max change over a 1ms pulse
Phase change/power	5° max.change from -30dB to full power
Phase stability/time	<1° max.change in 24hrs
Blanking delay	1 microsecond approx.
Input VSWR	2:1 max.
Input/output impedance	50Ω nominal



Protection	Overheating, load mismatch, drive faults, limited transient protection on inputs and outputs
Cooling	Forced air
Dimensions:1kW	Tx plus power supply: 19”x640mmx270mm
Drive signals: RF drive RF gate (blanking)	 0dBm nominal, 10dBm for no damage 0-5V CMOS
Connectors	RF out: N type Inputs: BNC
Temperature	0ºC-40ºC
Humidity	95% non-condensing
Compliance	CE

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