RF AMPLIFIERS
BT-Delta Series
100MHz to 500MHz
2kW

POWER AND PRECISION

The BT-Delta series is a range of class AB RF power amplifiers spanning the 100-500MHz frequency range

Available at peak output power levels up to 8kW.

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, ultrasound systems and other scientific applications

Model numbers	BT02000-Delta
Peak output power for 0dBm in	2kW minimum
Peak output power@1dB compression	1.6kW minimum
Type	Class AB MOSFET
Frequency	100MHz to 500MHz
Small signal gain	63dBmin.
Gain flatness	±2dB max.
IP_3	+70dBm typ.
Duty cycle	20%max.(higher values available)
Max.pulse width	10ms (higher values available)
Pulse droop	<0.5dB @ max.pulse width
Harmonics	<-20dBC even, -10dBc odd measured at 1.6kW
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.



Protection	Overheating, load mismatch, drive faults, limited transient protection on inputs and outputs
Input/output impedance	50Ω nominal
Drive signals: RF drive RF gate (blanking)	 0dBm nominal, 10dBm for no damage 0-5V CMOS
Dimensions	Transmitter : 19”x 640mm x 270mm Power supply: 19”x 640mm x 270mm
Connectors	RF out: N type Inputs: BNC
Cooling	Forced air
Temperature	0ºC-40ºC
Humidity	95% non-condensing
Compliance	CE

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