RF AMPLIFIERS
BT-Gamma series
5MHz-200MHz
50W, 100W, 200W

POWER AND PRECISION

The BT-Gamma series is a range of class AB RF power amplifiers spanning the 5-200MHz frequency range

Excellent phase and amplitude stability.

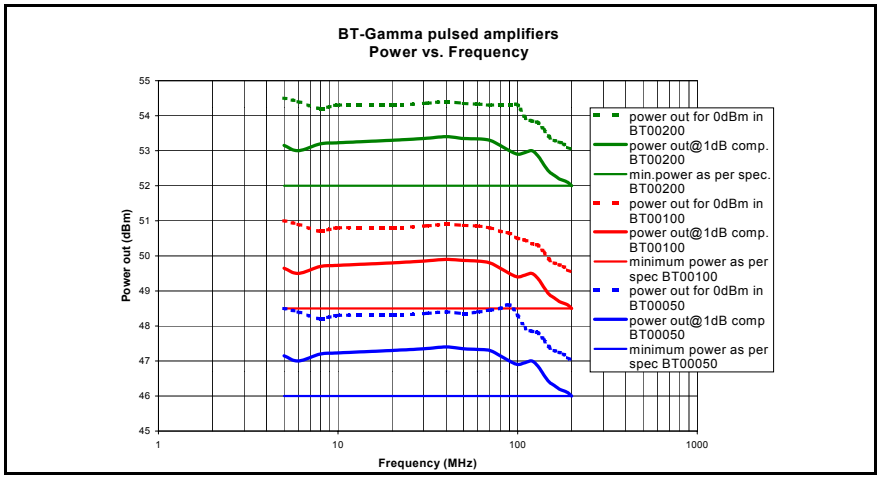
High efficiency
High linearity

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	BT00050-Gamma, BT00100-Gamma, BT00200-Gamma
Peak power for 0dBm drive	50W, 100W, 200W minimum
Peak output power @1dB compression	40W, 70W, 160W minimum
Type	Class AB MOSFET
Frequency	5MHz – 200MHz
Gain	47dB, 50dB, 53dB (±1.5dB)
Gain flatness	±1.5dB max.
IP_3	+54dBm, +57dBm, +60dBm 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 1dB compression
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
Drive signals: RF drive RF gate (blanking)	 0dBm nominal, 10dBm for no damage 0-5V CMOS
Dimensions	19”x350mmx128mm
Connectors	RF out: N type Inputs: BNC
Temperature	0ºC-40ºC
Humidity	95% non-condensing
Compliance	CE

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