RF AMPLIFIERS
BT-Beta-CW
1MHz-30MHz
50W, 100W

POWER AND PRECISION

The BT-Beta series is a range of class AB RF power amplifiers covering the 1MHz to 30MHz 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 number	BT00050-Beta-CW, BT00100-Beta-CW
Peak output power for 0dBm drive	50W, 100W CW minimum
Output power @ 1dB compression	40W, 80W CW minimum
Frequency	1MHz – 30MHz
Small signal gain flatness	±1.5dB max.
Intermodulation distortion 2-tones, 5W per tone, 100kHz spacing	+57dBm, +60dBm
Duty cycle	100%
Harmonics	<-20dBC even, <-10dBc odd Measured @ 1dB compression
Spurious	<-60dBC
Output noise (blanked)	<10dB above thermal (1MHz bandwidth)
Noise figure	Approx.10dB
Phase change/power	5° max.change from -30dB to full power
Phase stability/time	<1° max.change in 24hrs
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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