



CBA 100M-1100

10 kHz TO 100 MHz 1100 WATT

CLASS A BROADBAND AMPLIFIER

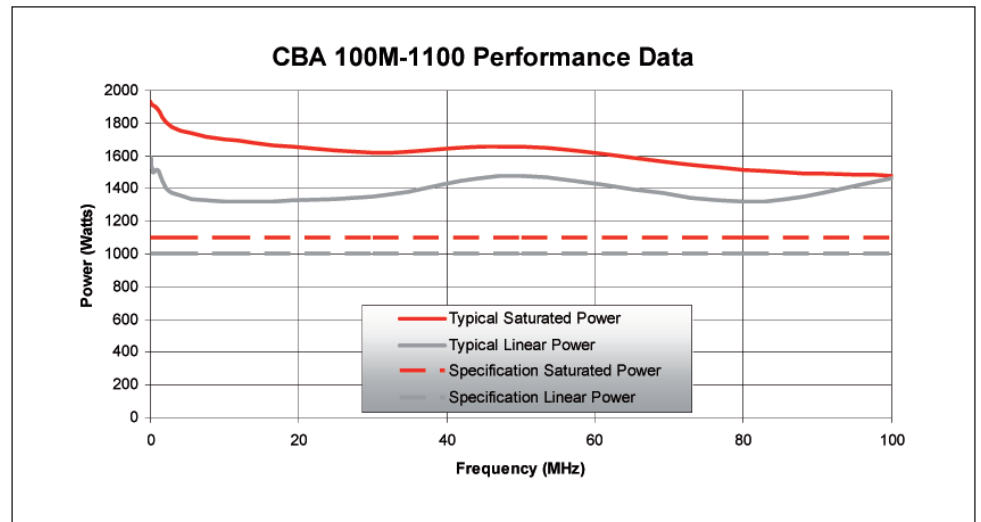


This low frequency amplifier can be used in conjunction with other amplifiers from the Teseq range to cover the entire frequency range from 10 kHz to 40 GHz with convenient frequency break points allowing you to optimise the power level in each range.

The Class A design ensures a high reliability, low distortion linear performance across the frequency range. This design also ensures that the amplifier will continue to operate at full power even when presented with an open or short circuit at its output.

The unit is powered from a switched mode power supply for high efficiency, high power factor and wide voltage range operation. The unit is air-cooled with integral fans, and is protected against faulty cooling by excess temperature sensing. A safety interlock connector is provided, which the user can short circuit to ground, to put the amplifier into standby mode. Front panel indicators are provided to indicate over-temperature and rf interlock operation.

- Class A linear and low distortion design
- Ideal for low frequency tests using various strip line devices
- Mismatch tolerant and unconditionally stable
- Rugged design for EMC testing
- Three year parts and labour warranty



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Key RF Parameters

Frequency range (instantaneous)	0.01 to 100 MHz
Rated output power	1100 W minimum (1500 W typical)
Output power at 1 dB gain compression	1000 W minimum (1300 W typical)
Harmonics at 1 kW output power	Better than -20 dBc
Gain	62 dB
Gain variation with frequency	±3 dB
Maximum input power (no damage)	+10 dBm

Impedance / VSWR

Output VSWR tolerance ¹	Infinite any phase
Stability	Unconditional
Output impedance	50 Ohms
Input VSWR	2:1

Additional RF Data

Third order intercept point ²	72 dBm
RF connector style	Type N female

Electrical and Interfaces

USB interface	Optional
Safety interlock	BNC female, s/c to mute
Supply voltage (three phase)	184 to 264 Vac (phase to phase for Delta (Δ) or phase to neutral for star (Y))
Supply frequency range	47 to 63 Hz
Supply power	<6 KVA

Physical / Environmental

Case dimensions	19 inch, 34U rack, 800 mm deep
Weight	200 kg
Operating temperature range	0 to 40°C

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Notes:

1. Output VSWR tolerance is specified for excitation within the permitted levels and frequency range.
2. The third order intercept point is a nominal value, as its calculation depends upon the power level at which distortion measurements are made.