



# CBA 100M-400

## 10 kHz TO 100 MHz 400 WATT

### CLASS A BROADBAND AMPLIFIER

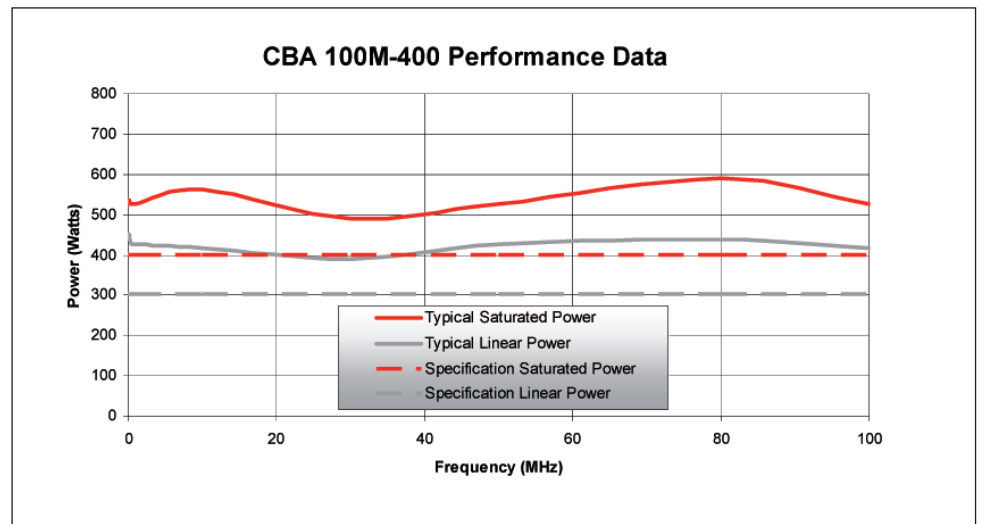


This low frequency amplifier can be used in conjunction with other Teseq amplifiers to cover the entire frequency range from 10 kHz to 6 GHz with convenient frequency break points allowing you to optimise the power level in each range.

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





# **CBA 100M-400** **10 kHz TO 100 MHz 400 WATT** **CLASS A BROADBAND AMPLIFIER**



## Technical specifications

Frequency range (instantaneous)	0.01 to 100 MHz
Rated output power	400 W minimum (500 W typical)
Output power at 1 dB gain compression	300 W minimum (400 W typical)
Gain	57 dB
Third order intercept point (see note 1)	67 dBm
Gain variation with frequency	±2 dB
Harmonics at 250 W output power	Better than -20 dBc
Harmonics at 300 W output power	Better than -18 dBc
Output impedance	50 Ohms
Stability	Unconditional
Output VSWR tolerance (see note 2)	Infinity:1
Input VSWR	2:1
RF connector style	Type N female
Safety interlock	BNC female, s/c to mute, 100 mA max.
USB interface	Optional
Supply voltage	184 to 264 Vac
Supply frequency range	47 to 63 Hz
Supply power	<2 KVA
Mains connector	IEC320
Conducted and radiated emissions	EN61326 Class A
Conducted and radiated immunity	EN61326: 1997 Table 1
Mains harmonic currents	EN61000-3-2
Voltage fluctuations and flicker	EN61000-3-3
Safety	EN61010-1
Case dimensions	19 inch, 9U rack, 570 mm deep
Mass	33 kg
Operating temperature range	0 to 40°C
Options (select at time of ordering)	
341-200	Rack mountable with rear panel mounted input/output connectors

### Notes:

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