



CBA 100M-1100

10 KHZ TO 100 MHZ 1100 WATT

CLASS A BROADBAND AMPLIFIER

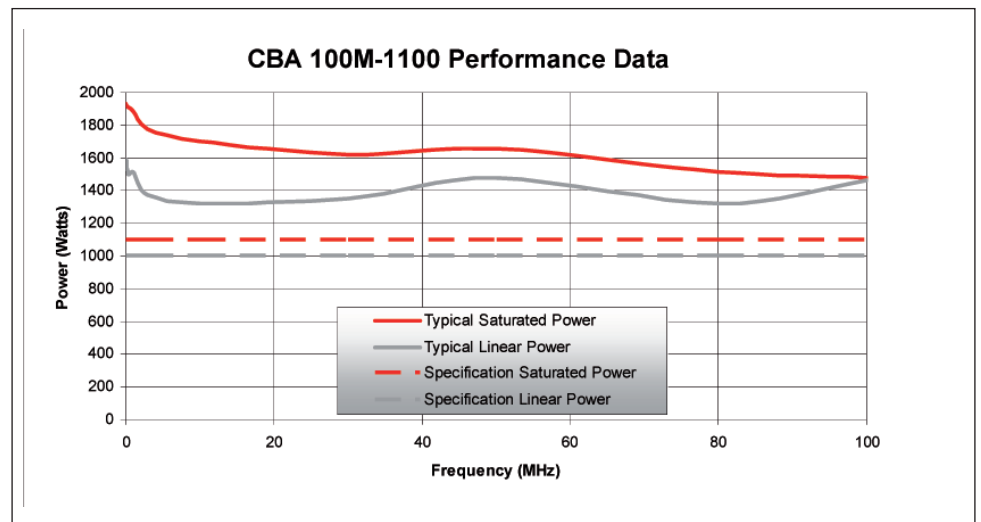


This low frequency amplifier can be used in conjunction with other Teseq amplifiers to cover the entire frequency range from 10 kHz to 6 GHz with convenient frequency break points allowing you to optimise the power level in each range.

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



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Technical specifications

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)
Gain	62 dB
Third order intercept point (see note 1)	72 dBm
Gain variation with frequency	±3 dB
Harmonics at 1 kW output power	Better than -20 dBc
Output Impedance	50 Ohms
Stability	Unconditional
Output VSWR tolerance (see note 2)	Infinite any phase
Input VSWR	2:1
RF connector style	Type N female
Safety interlock	BNC female, s/c to mute
USB interface	Optional
Supply voltage (see options)	170 to 264 Vac
(See options for three phase configuration)	
Supply frequency range	47 to 63 Hz
Supply power	<6 KVA
Mains connector	Appropriate IEC 60309 plug (see options)
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, 34U rack, 800 mm deep
Mass	200 kg
Operating temperature range	0 to 40°C
Options (select at time of ordering)	
341-721	Three phase plus P.E. Delta connection no neutral (4 pin plug), voltage range applies Line to Line.
341-722	Three phase, neutral plus P.E. Star connection (5 pin plug), voltage range applies Line to Neutral.

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Notes:

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

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Advanced Test Solutions for EMC