



## CBA 100M-110 10 KHZ TO 100 MHZ 110 WATT CLASS A BROADBAND AMPLIFIER



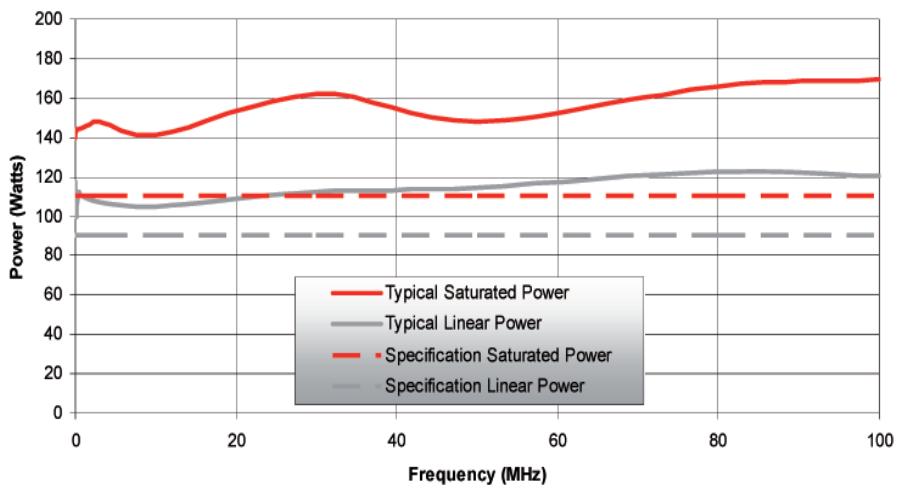
- Class A linear and low distortion design
- Ideal for low frequency tests using various strip line devices
- Mismatch tolerant and unconditionally stable
- Rugged design for EMC testing
- Three year parts and labour warranty

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.

**CBA 100M-110 Performance Data**





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Key RF Parameters	
Frequency range (instantaneous)	0.01 to 100 MHz
Rated output power	110 W minimum (140 W typical)
Output power at 1 dB gain compression	90 W minimum (100 W typical)
Harmonics at 90 W output power	Better than -20 dBc
Gain	51 dB
Gain variation with frequency	±2 dB
Maximum input power (no damage)	+10 dBm

Impedance / VSWR	
Output VSWR tolerance <sup>1</sup>	Infinite any phase
Stability	Unconditional
Output impedance	50 Ω
Input VSWR	2:1

Additional RF Data	
Third order intercept point <sup>2</sup>	61 dBm
RF connector style	Type N female

Electrical and Interfaces	
USB interface	Optional
Safety interlock	BNC female, s / c to mute
Supply voltage (single phase)	85 to 264 Vac
Supply frequency range	45 to 63 Hz
Supply power	<500 VA

Physical / Environmental	
Case dimensions	19 inch, 4U case, 440 mm deep
Weight	20 kg
Operating temperature range	0°C–40°C

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.

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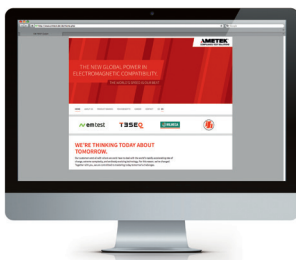
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