CBA 100M-110

10 KHz to 100 MHz 110 Watt Class A Solid State 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.

MAIN FEATURES

- 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
- 3 year warranty
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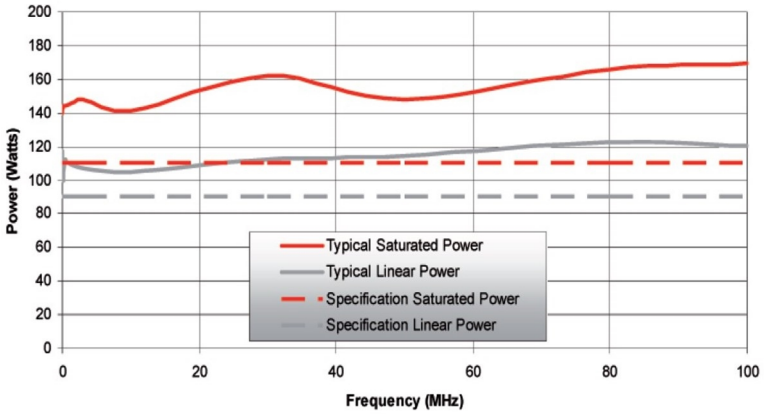

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Technical Specifications

Frequency Bands	Single Band
Frequency (min.) kHz	10 kHz
Frequency (max.) MHz	100 MHz
Psat (min)	110 W
P1dB (min.)	90 W
Gain @Rated Output Power	51 dB
Gain Variation (max) ±	+/- 2.0 dB
Harmonics P1dB	-20 dBc
3rd Order Intercept Point	10 db > P1dB
Modulation Formats	AM, FM, Pulse
Maximum Input Power (no damage)	10 dBm
Output VSWR Tolerance	Infinite any phase (no foldback)
Stability	Unconditional
Output Impedance	50 Ohm
Input VSWR	2:1 (max)
Output VSWR	2:1 (typical)
Spurious (min.)	-70 dBc
Spurious (typ.)	-80 dBc

General Specifications

Safety Interlock	Via rear panel mounted BNC-female
Supply Voltage	90 to 264 VAC
Supply Frequency	47 to 63 Hz
Supply Power (typ.)	0.5 kVA
RF Input Connector	Type N female
RF Output Connector	Type N Female
Weight kg	20 kg
Dimensions mm	19 inch, 4U Rack Case, 440mm Deep (HxWxD)
Cooling System	Air Cooled, Self-contained

Availabe Variants

Product	Configuration	Item #
CBA 100M-110	Front Panel RF Connectors	CBA 100M-110
CBA 100M-110-8	Rear Panel RF Connector	CBA 100M-110-8

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