

## CBA250M-2500

### 10 KHz to 250 MHz 2500 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.

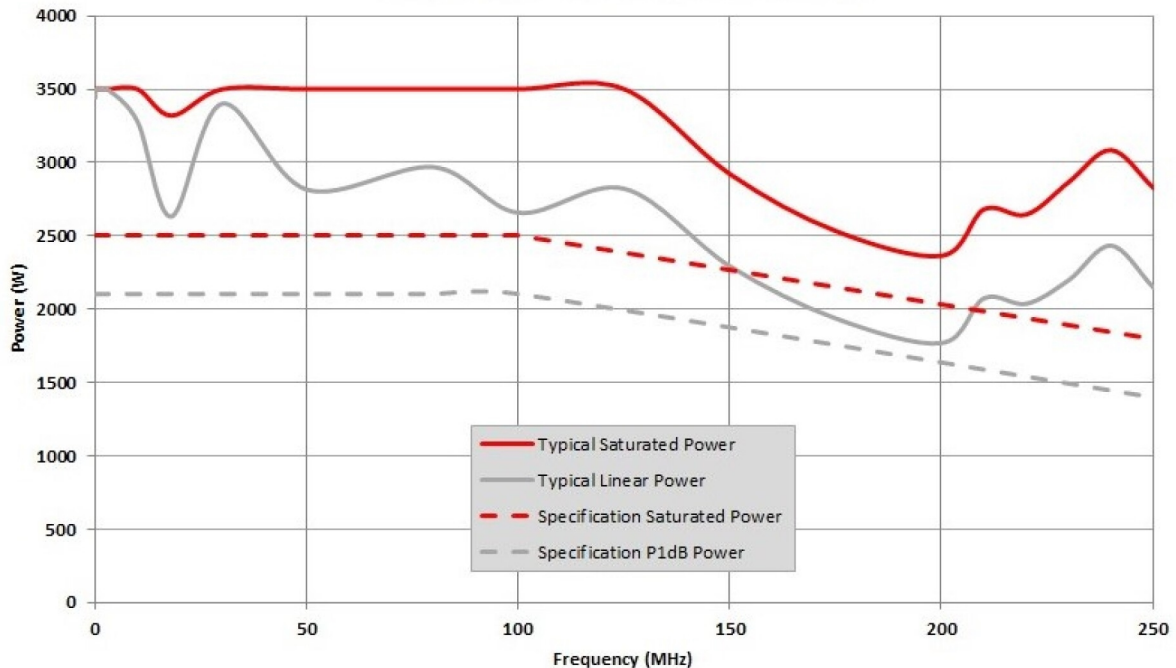
The Class A design ensures a high reliability, low distortion linear performance across the frequency range and is 100% mismatch tolerant.

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 Operation**
- **Ideal for Low Frequency Tests Using Strip Line Devices**
- **Mismatch Tolerant & Unconditionally Stable**
- **USB, Ethernet and GPIB interface**
- **3 Year Warranty**
- **Applications: Radiated immunity (ISO, IEC, MIL)**
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**CBA 250-2500 Performance Data**



### Technical Specifications

Frequency Range	0.01 - 250 MHz
Rated Output Power	10KHz-100MHz - 2500W (min) 2800W (typ)
Rated Output Power	de-rating from 100-250MHz - 2500W to 1900W (min)
Power Output @ 1dB Compression	10KHz-80MHz - 2100W (min)
Power Output @ 1dB Compression	de-rating from 100-250MHz - 2100W to 1400W (min)
Input for Rated Output	1 dBm
Small Signal Gain	64 dB
Gain Variation (max) ±	+/- 3.0 dB
Harmonics @ P1dB (min)	-20 dBc
Spurious	-70 dBc
Input VSWR	2:1 (max)
Output VSWR	2:1 (typ)
Output Impedance	50 Ohm
3rd Order Intercept Point	73 dB
Noise Figure	10 dB
Modulation Formats	AM, FM, PM, ODFM
Maximum Input Power (no damage)	10 dBm
Output VSWR Tolerance	Infinite any phase
Stability	Unconditional

### General Specifications

Acoustic Noise (measured @ 1 M)	64 dBA
Supply Frequency	47 to 63 (Hz)
Supply Power (typ)	11 KVA
Supply Voltage	See, "Available Configurations" chart below VAC

### Mechanical Specifications

RF Input Connector	Type-N Female
RF Output Connector	Type-7/16 Female
Safety Interlock	2 x BNC, S/C and O/C to Mute
Dimensions (With Cabinet) (W x H x D)	51.0 x 151 x 80 cm (20.1 x 59.5 x 31.5 in) (34U)
Weight (With Cabinet)	291 Kg (642 lb)
Cooling System	Air Cooled, Self-contained
Com. Interface	GPIOB, Ethernet & USB

### Environmental Specifications

Ambient Running Temperature	5°C to +40°C
Storage Temperature	-20°C to +50°C
Maximum Altitude	up to 2000M
Shock and Vibration	Normal Truck Transport

**Regulatory Compliance (CE)**

EMC	EN 61326-1
Safety	UL 61010-1
RoHS	DIRECTIVE 2011-65-EU
Export Classification	No Licence Required

**Available Configurations**

Product	Configuration	Item #
CBA250M-2500-004	Rear Panel RF Connectors, 3 Phase, 5 Wire (3P+N+E), 380 to 415 VAC Line to Line	3-342421
CBA250M-2500-006	Rear Panel RF Connectors, 3 Phase, 4 Wire (3P+E), 208 to 240 VAC Line to Line	3-432423