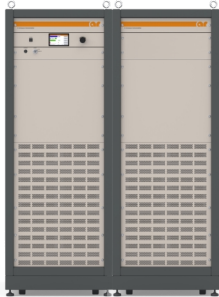


10000A225B

10 KHz - 225 MHz, Class A Solid State Amplifier



The Model 10000A225B is a solid-state, Class A design, self-contained, air-cooled, broadband power amplifier. It is designed for applications requiring instantaneous bandwidth, high gain, and linearity, providing a minimum of 10 kW of RF power. The amplifier features protection from input overdrive beyond 0 dBm, as well as safeguards against various failure conditions including over-temperature and power supply faults.

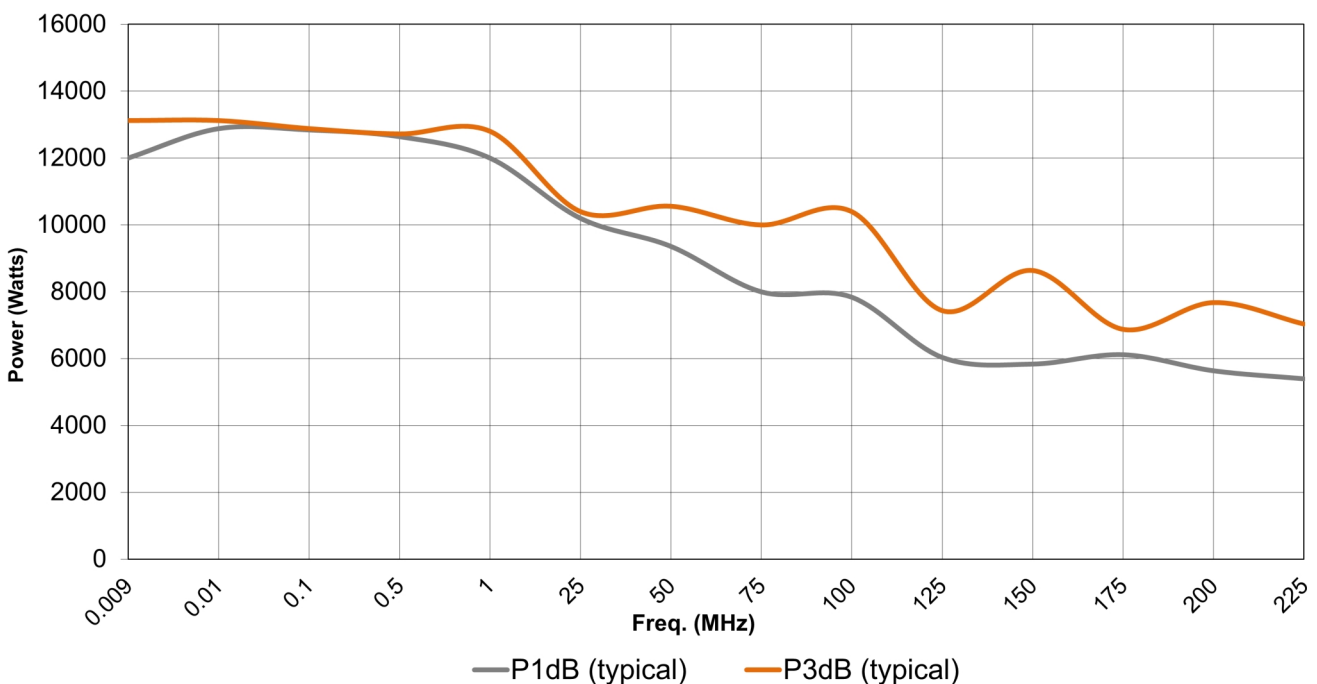
An easy-to-read front panel display indicates operational status and fault conditions. All amplifier control functions and status indications are available remotely using GPIB/IEEE-488, RS-232, fibre-optic serial, USB, or Ethernet. Interface connectors are located on the back panel. Local and remote operation can be managed by a switch on the front panel.

This high-power Class A amplifier is ideal for EMC test applications due to its low level of spurious signals and exceptional linearity, enabling continued operation into high VSWR loads.

The export classification for this equipment is EAR99. These commodities, technology, or software are controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

MAIN FEATURES

- **Class A Operation**
- **Touch Screen Display**
- **100% Mismatch Tolerant**
- **Scalable Modular Construction**
- **Ethernet, USB, GPIB, Fiber-optic & RS-232 Remote Interface**
- **3 Year Warranty**
- **Applications: Radiated Immunity (ISO, IEC, MIL)**



Technical Specifications

Frequency Range	0.01 - 225 MHz
Rated Output Power	0.01-100MHz - 10000W (min) - 12100W (typ)
Rated Output Power	100-225MHz - 7000W (min) - 9500W (typ)
Power Output @ 3dB Compression	0.01-100MHz - 10000W (min) - 11200W (typ)
Power Output @ 3dB Compression	100-225MHz - 6400W (min) - 7900W (typ)
Power Output @ 1dB Compression	0.01-100MHz - 7200W (min) - 10200W (typ)
Power Output @ 1dB Compression	100-225MHz - 4800W (min) - 5480W (typ)
Input for Rated Output	1 dBm
Small Signal Gain	70 dB
Gain Variation (max) ±	2.5 dB
Gain Control Adjust When Below P1dB	20 dB
Harmonics @ P1dB (min)	-20 dBc
Spurious	-75 dBc
Input VSWR	1.5:1 (max)
Output VSWR	2:1 (typ)
Output Impedance	50 Ohm
3rd Order Intercept Point	80 dB
Noise Figure	15 dB
Modulation Formats	AM, FM, PM, ODFM
Maximum Input Power (no damage)	10 dBm
Output VSWR Tolerance	6:1 (Foldback)
Stability	Unconditional

General Specifications

Acoustic Noise (measured @ 1 M)	83 dBA
Supply Frequency	47 to 63 (Hz)
Supply Power (typ)	35 KVA
Three Phase 5 Wire WYE Low Line	200 to 240 VAC
Three Phase 5 Wire WYE	380 to 415 VAC

Mechanical Specifications

RF Input Connector	Type-N Female
RF Output Connector	Type-1-5/8 Female
RF Sample Port Connectors	Optional, Type-N Female, (coupling factor 80 dB typical)
Safety Interlock	15-Pin Subminiature D Female
Dimensions (With Cabinet) (W x H x D)	(2 x 35U) -112.2 x 181.6 x 97.8 cm (44.2 x 71.5 x 38.5 in)
Weight (With Cabinet)	590 kg (1300 lb)
Cooling System	Forced air (self contained fans)
Com. Interface	IEEE-488 / RS-232 / RS-232 (fibre optic) / USB 2.0 / Ethernet

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

Ordering Information

10000A225B - **N** - **R** - **158** -
 Model RF IN Conn RF OUT Conn RF Sample Primary
 Location, Type Location, Type Ports Power

CONNECTOR LOCATION	
Front	F
Rear	R

RF SAMPLE PORTS	
Front	SPF
Rear	SPR

PRIMARY POWER	
200-240 VAC	LV
380-415 VAC	HV