

COMTECH PST CORP

AR1929-30

The Comtech PST CORP AR1929-30 is a professional-grade Class A linear solid-state power amplifier operating in the 1.9 to 2.9 GHz frequency range. Delivering a minimum of 30 Watts of power at 1dB compression, this rack-mountable amplifier is designed for general-purpose linear applications, incorporating built-in forced-air cooling and an integrated universal AC power supply. An IEEE-488 (GPIB) interface is optionally available for remote control and monitoring in the ARD configuration.

SPECIFICATIONS

General

Interfaces	Optional GPIB (IEEE-488) (ARD variant)
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Physical

Power Supply	100 - 240 VAC, 50/60 Hz (universal AC input)
Operating Temperature	0 to +50 °C °C
Dimensions (W×H×D)	483 mm × 133 mm × 559 mm (19" × 5.25" × 22") mm

Frequency & Gain Characteristics

Frequency Range	1900 - 2900 MHz (1.9 - 2.9 GHz)
Small Signal Gain	45 dB minimum
Gain Flatness	±1.5 dB maximum
Class of Operation	Class A linear

Power & Distortion Performance

Output Power at 1dB Compression (P1dB)	30 Watts minimum
Harmonics at Rated Output	-20 dBc maximum
Spurious Outputs	-60 dBc maximum
Noise Figure	10 dB maximum

Impedance & Port Characteristics

Input Impedance	50 Ohms nominal
Output Impedance	50 Ohms nominal
Input VSWR	2.0:1 maximum
Output VSWR	2.0:1 maximum
Load VSWR Tolerance	Unconditional stability, protected against any load VSWR

Inputs, Outputs & Interfaces

RF Input Connector Type	Type N female
RF Output Connector Type	Type N female

Physical & Mechanical

Form Factor	19-inch rack-mountable cabinet
Rack Units (U)	3U
Cooling Method	Forced-air cooling (internal DC blowers)

Environmental & Regulatory

Storage Temperature Range	-40 to +70 °C
Operating Humidity	95% non-condensing

TECHNOLOGY

Solid State GaAs FET

APPLICATIONS

General Purpose Linear RF Amplification

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.