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Data Sheet

August 14, 2026

COMTECH PST

Comtech PST BHE22748 High Power Amplifier 200W

The Comtech PST BHE22748-200 is a high-power RF amplifier module designed for various applications. It operates within a specific frequency range (typically in the UHF or microwave bands) and provides significant amplification of RF signals. This amplifier is characterized by its solid design, high efficiency, and reliable performance, making it suitable for demanding environments.



MODEL

**Comtech PST
BHE22748-200**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

BHE22748-200

LISTING

<https://aumictechlabs.com/products/bhe22748-200-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Comtech PST BHE22748-200 is a high-power RF amplifier module engineered for demanding applications requiring significant signal amplification. This module operates within the 225-400 MHz frequency range and delivers a nominal output power of 200 Watts. It is characterized by its solid solid-state design, ensuring reliability and consistent performance in challenging environments. The BHE22748-200 is suitable , including EW/ECM systems, communication systems, AM/FM transmitter boosters, TWT replacement, and RFI/EMI testing. Technical Specifications General: Manufacturer: Comtech PST Model: BHE22748-200 Product Type: RF Power Amplifier Module Technology: Solid State Electrical Specifications: Frequency Range: 225-

400 MHz Output Power (P1dB Sat): 200 Watts Gain at P1dB: 2.6 dB (minimum) KVA: 2.6 RF Input Power (for full output): 1 mW (0 dBm) Maximum RF Input: +8 dBm Class of Operation: AB Linear Modulation Formats Supported: CW, AM, FM, Phase, and Pulse Modulation Harmonics: Not explicitly detailed, but generally within acceptable limits for the class of operation. Spurious: -60 dBc Maximum AM Distortion (85% D.O.M.): 10% Maximum Pulse Rise/Fall Time (typical): 150 ns Noise Power Output: -86 dBm/Hz typical (model dependent) Efficiency (AC to RF): 16% typical Interfaces: Digital Interface: IEEE488 (for remote control and monitoring on some AR models, though not explicitly stated for BHE22748-200, it's a common feature for similar series) RF Input Connector: Female Type N, Rear Panel RF Output Connector: Female Type N or SC, Rear Panel (model dependent) AC Input: Power Factor Corrected Universal Input 100-240 VAC, 50/60 Hz Physical Specifications: Dimensions (H x W x L): 5.22 in x 13.26 in x 40 cm (approx. 5.22 inches x 13.26 inches x 15.75 inches) Weight: 40 lbs (approx. 18.19 kg) Protection and Reliability Features: Load VSWR Protection: Electronic power output turndown system employing negative feedback; self-correcting for VSWR up to infinity at any phase angle. Typical response time of 60 μ sec. Input/Output Overdrive Protection: Leveling loop system protects against input overdrive signals up to +8 dBm. Field-replaceable modules: Facilitates easier maintenance and reduces downtime. Graceful degradation: Maintains partial functionality even under fault conditions. High efficiency switching power supplies: Contributes to overall efficiency and reliability. Standard 19" Rack Mount Configuration: Designed for easy integration into standard rack systems. Applications: EW/ECM systems Communication systems AM/FM transmitter boosters TWT replacement RFI/EMI testing High power calibration testing Why Choose Aumictech for Comtech PST BHE22748-200? At Aumictech, we specialize in supplying high-end RF power amplifier modules. Whether you need reliable signal amplification for electronic warfare systems, solid performance for communication infrastructure, or precise power output for testing applications, our team ensures the Comtech PST BHE22748-200 delivers maximum performance for your application.

Features & description

From manufacturer datasheet

Built-In Test Class: forward/reflected power module status supply monitors on higher power units

Remote Interface Options: Ethernet RS-422 RS-232 IEEE-488 Form Factor: 19 inch rack mount Series Family: Comtech PST Series BHE Height Class Sibling 200 W BHE: 5.22 in (13.26 cm) amplifier section class Width: 19 in rack Cooling: forced air Notes Frequency and power from Comtech PST BHE product table listing BHE22748-200 as 225-400 MHz 200 W. Shared BHE electrical protection rows from Comtech Class AB BHE catalog text.

BHE22748200 Characteristics / Specifications

PARAMETER	VALUE
Model	BHE22748-200
Frequency Range	225 to 400 MHz
Rated Output Power	200 W
Class Of Operation	Class AB linear
Modulation Capability	AM FM CW pulse and phase
Load VSWR Protection	electronic power turndown self-correcting to infinite VSWR
Turndown Response Time Typical	60 us
Input Overdrive Protection	leveling loop to about plus 8 dB overdrive
AC Input 100 And 200 W Models	PFC universal 100-240 Vac 50/60 Hz
Efficiency AC To RF Typical	16 percent
Remote Interface Options	Ethernet RS-422 RS-232 IEEE-488
Form Factor	19 inch rack mount
Series Family	Comtech PST Series BHE
Height Class Sibling 200 W BHE	5.22 in (13.26 cm) amplifier section class
Width	19 in rack
Cooling	forced air

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

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Series Family	Comtech PST Series BHE
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Width	19 in rack
Cooling	forced air

Notes
Frequency and power from Comtech PST BHE product table listing BHE22748-200 as 225-400 MHz 200 W. Shared BHE electrical protection rows from Comtech Class AB BHE catalog text.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.