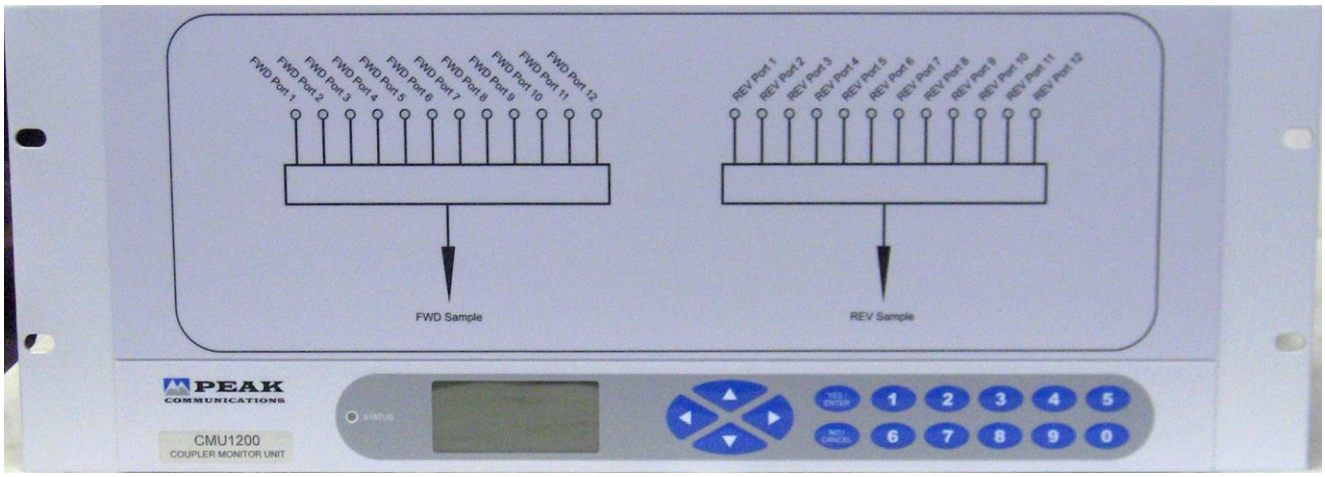
UHF Switching, Monitoring & Signal Conditioning Systems



These units are flexible and configurable to customer specific requirements. They are designed to allow patching and remote monitoring of up to 12 separate UHF channels, whilst having the flexibility to include amplification, filtering and other application/customer specific signal conditioning features. In addition, packaged filters (TX reject etc.), amplifiers and other items can be provided along with features such as fiber optic interfaces for cross-site applications.

These high quality units are all 19 inch rack mounted and can be powered from nominally 230 or 110 volts, with UHF or monitoring interfaces either on the front or rear panels (or a combination of both). Ruggedly constructed, they utilise high quality parts from reputable supply sources offering optimum system reliability.

The **CMUseries** of units are designed specifically to monitor up to 12 UHF channels. The channel to be monitored can be selected locally, remotely or set to 'poll' all channels. With forward and reverse coupling and a range of available coupling factors, the **CMUseries** contain the necessary switching, routing, processing and control circuitry to implement a full local or remote (RS232/485/Ethernet) based UHF monitoring system.

The **PPseries** of units are designed specifically as UHF patch panels that allow the system operator to easily reconfigure the UHF circuit locally as operational demands change. Inputs and outputs are located on the rear panel, with patch 'links' provided on the front of the unit.

The **DAH200series** dual, 'hot swappable', modular, UHF amplifiers are designed to provide low power amplification in a compact and easily maintainable configuration for ultimate system availability. Modules can be easily inserted/ replaced in the **DAH200series** 1U high unit from the rear, without the need to remove power or disturb the other channel in any way.

Peak Features

- Low loss and low ripple
- Exceptional channel to channel isolation
- Other frequency bands available
- Flexibility in use, for easy system re-configuration
- Optimal reliability through use of highest quality parts
- Ease of maintenance for optimal system availability
- Flexibility in design allows custom/application specific designs to be considered
- Dual 'Redundant' Power Supplies with dual mains inputs available
- Full remote control and alarm monitoring

CMUseries – Typical Specification

Basic Specification

UHF frequency	200 - 350MHz (or custom specific)
Channels	4, 6, 8, or 12 (or custom specific)
Input power	50W max.
Connectors	N-type (f) 50Ohm (rear panel)
Return loss	19dB min
Isolation	45dB min
I/P to O/P loss	0.5dB max
Coupling loss	10, 20 or 35dB nom
Coupling variation	±1dB
Switching time	500ms max

Power Supply (2off in redundant configuration)

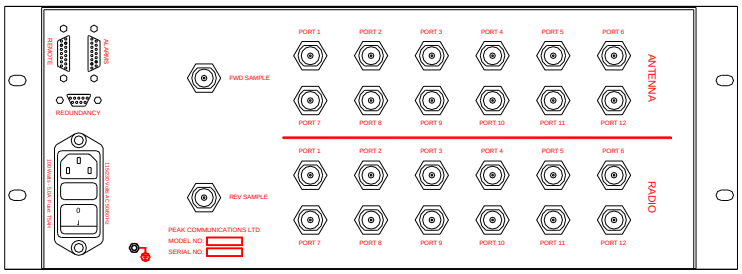
Voltage	90-264VAC
Frequency	47-63Hz
Power	30 Watts max

Mechanical

Width	19” standard rack mounted
Height	up to 4U, depending upon channels
Depth	420mm (16.5”), plus connectors
Construction	Aluminium chassis
Weight	10kgs (22lbs)

Control System Interface

Remote control	RS232/RS485 port
Option 9;	Ethernet; embedded web server & SNMP network management support
Alarms	PSU fail



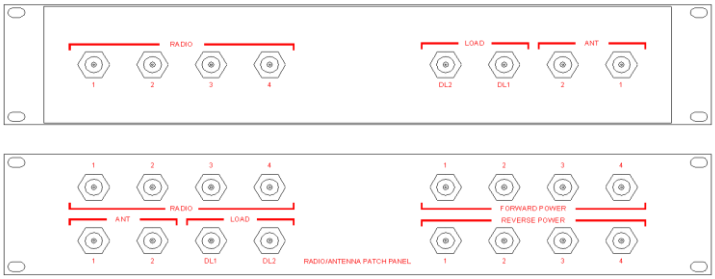
PPseries – Typical Specification

Basic Specification

UHF frequency	200 - 350MHz
Channels	4, 6, 8, or 12 (or custom specific)
Input power	50W max
Connectors	N-type (f), 50Ohm (I/P & O/P on rear, patching on front)
Isolation	45dB min
I/P to O/P loss	0.2dB max

Mechanical

Width	19” standard rack mounted
Height	1 or 2U (depending upon configuration)
Depth	420mm (16.5”), plus connectors
Construction	Aluminium chassis
Weight	2kg (4.4lbs)



DAHseries – Typical Specification

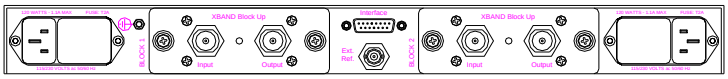
Basic Specification

UHF frequency	200 - 350MHz
Gain	20dB typ
RF input power	-10dBm max
1dB output GCP	+15dBm typ
Gain stability	±0.5dB from 0 to 40°C
Gain flatness	±0.5dB full band
Channels	2
Connectors	N-type (f), 50Ohm (rear panel)
Isolation	60dB min

Note; the above is provided as a guide, giving a typical specification, please consult the factory for custom requirements.

Mechanical

Width	19” standard rack mounted
Height	1U (1.75”)
Depth	400mm (15.7”), plus connectors
Construction	Aluminium chassis
Weight	5kg (11lbs)



General Specification

Environmental

Operating temp	0°C to +50°C
EMC	EN 55022 part B & EN 50082-1
Safety	EN 60950

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