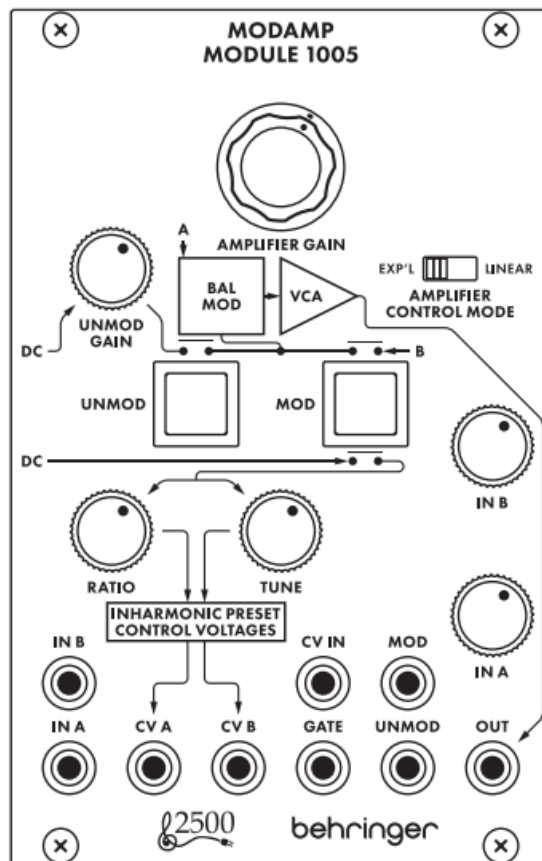




## behringer MODAMP MODULE 1005 Ring Modulator and VCA Module for Eurorack User Guide

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## Safety Instruction

1. Please read and follow all instructions.
2. Keep the apparatus away from water, except for outdoor products.
3. Clean only with a dry cloth.
4. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
5. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
6. Use only attachments/accessories specified by the manufacturer.
7.  Use only specified carts, stands, tripods, brackets, or tables. Use caution to prevent tip-over when moving the cart/ apparatus combination.

8. Avoid installing in confined spaces like bookcases.
9. Do not place near naked flame sources, such as lighted candles.
10. Operating temperature range 5° to 45°C (41° to 113°F).

## LEGAL DISCLAIMER

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## LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding Music Tribe's Limited Warranty, please see complete details online at [community.musictribe.com/support](https://community.musictribe.com/support).

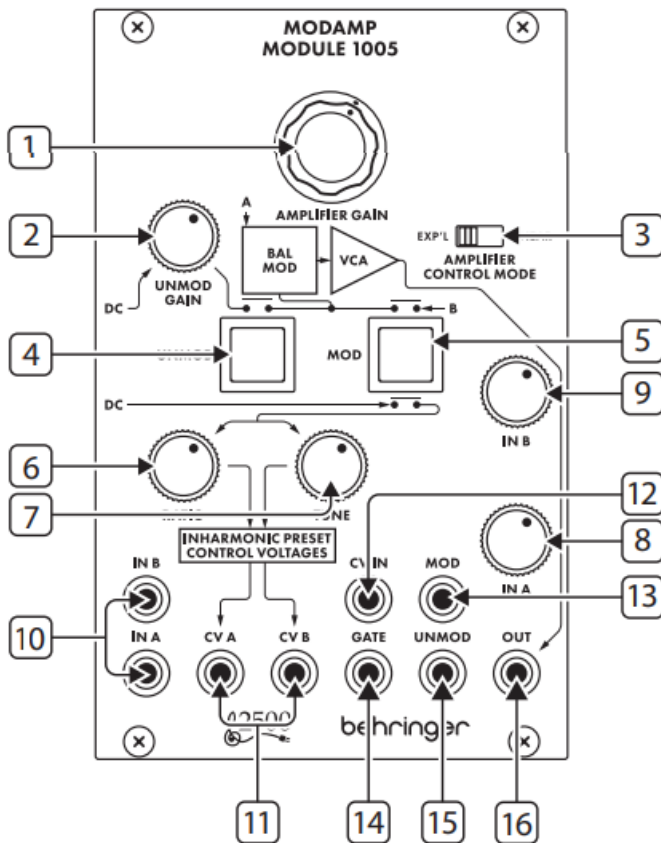
## MODAMP MODULE 1005 Controls

### Controls

1. **AMPLIFIER GAIN** – This knob controls the VCA's gain and final output volume at the OUT jack.
2. **UNMOD GAIN** – This knob controls the IN A signal gain when the module is in UNMOD mode (as indicated by the UNMOD button). UNMOD mode allows the module to be used as a VCA when modulation is not required.
3. **AMPLIFIER CONTROL MODE (EXP'L/LINEAR)** – This sliding switch determines whether the VCA gain response is exponential (EXP'L) or linear (LINEAR).
4. **UNMOD** – Press this button to place the module into UNMOD mode.  
In UNMOD mode, the IN A signal passes to the OUT jack without any modulation, and the signal level is controlled by both the UNMOD GAIN and AMPLIFIER GAIN knobs. IN B does not function in UNMOD mode.
5. **MOD** – Press the button to activate MOD mode. In MOD mode, the circuit combines the IN A signal and the IN B signal to produce an output signal that is a modulated combination of the two input signals.
6. **RATIO** – Use this knob in MOD mode to offset the tune control voltage that is sent out through the CV B jack. This function only operates when MOD mode is selected.
7. **TUNE** – Use this knob in MOD mode to control the output level of the tune control voltage sent out through both the CV A and CV B jacks. This function only operates when MOD mode is selected.
8. **IN A** – This knob controls the input level for the signal coming in through the IN A jack.
9. **IN B** – This knob controls the input level for the signal coming in through the IN B jack.
10. **IN A / IN B** – Use these input jacks to route in audio signals for the internal modulation process via cables with 3.5 mm connectors.
11. **CV A / CV B** – Use these jacks to route TUNE (CV A and CV B) and RATIO (CV B offset) control voltages out to the two VCOs that typically supply the audio signals to the IN A and IN B inputs to be modulated.
12. **CV IN** – Use this jack to route in control voltage signals for remote control of the AMPLIFIER GAIN setting.
13. **MOD** – Use this jack to route in a trigger signal to remotely activate MOD mode via a cable with 3.5 mm connectors.
14. **GATE** – Use this input jack to route in a gate signal to turn the modulation circuit on and off via a cable with 3.5

mm connectors.

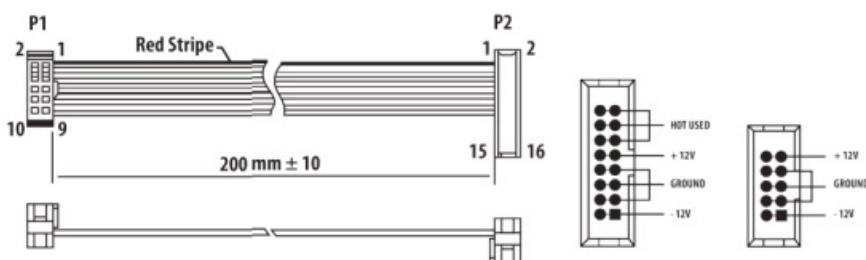
15. UNMOD – Use this jack to route in a trigger signal to remotely switch off MOD mode via a cable with 3.5 mm connectors.
16. OUT – This jack sends out the final VCA signal via cable with 3.5 mm connectors.



## Power Connection

The MODAMP MODULE 1005 module comes with the required power cable for connecting to a standard Euro rack power supply system. Follow these steps to connect power to the module. It is easier to make these connections before the module has been mounted into a rack case.

1. Turn the power supply or rack case power off and disconnect the power cable.
2. Insert the 16-pin connector on the power cable into the socket on the power supply or rack case. The connector has a tab that will align with the gap in the socket, so it cannot be inserted incorrectly. If the power supply does not have a keyed socket, be sure to orient pin 1 (-12 V) with the red stripe on the cable.
3. Insert the 10-pin connector into the socket on the back of the module.  
The connector has a tab that will align with the socket for correct orientation.
4. After both ends of the power cable have been securely attached, you may mount the module in a case and turn on the power supply.



Connect end P1 to the module socket  
Connect end P2 to the power supply

## Installation

The necessary screws are included with the module for mounting in a Euro rack case. Connect the power cable before mounting.

Depending on the rack case, there may be a series of fixed holes spaced 2 HP apart along the length of the case, or a track that allows individual threaded plates to slide along the length of the case. The free-moving threaded plates allow precise positioning of the module, but each plate should be positioned in the approximate relation to the mounting holes in your module before attaching the screws.

Hold the module against the Euro rack rails so that each of the mounting holes are aligned with a threaded rail or threaded plate. Attach the screws part way to start, which will allow small adjustments to the positioning while you get them all aligned. After the final position has been established, tighten the screws down.

## Specifications

Inputs	
In A / B	
Type	2 x 3.5 mm TS jacks, DC coupled
Impedance	50 k $\Omega$ , unbalanced
Max input level	10 V p-p
Gate	
Type	1 x 3.5 mm TS jack, DC coupled
Impedance	80 k $\Omega$ , unbalanced
Max input level	+12 V
Minimum switching threshold	+4 V
Mod / unmod	
Type	2 x 3.5 mm TS jacks, AC coupled
Impedance	50 k $\Omega$ , unbalanced
Max input level	+12 V
Minimum switching threshold	+4 V
CV in	
Type	1 x 3.5 mm TS jack, DC coupled
Impedance	100 k $\Omega$ , unbalanced
Max input level	$\pm 10$ V
Outputs	

<b>Out</b>	
Type	1 x 3.5 mm TS jack, DC coupled
Impedance	1 k $\Omega$ , unbalanced
Max output level	10 V p-p
<b>CV A / B</b>	
Type	2 x 3.5 mm TS jack, DC coupled
Impedance	400 $\Omega$ , unbalanced
CV A Max output level	$\pm 3$ V
CV B Max output level	$\pm 6$ V
<b>Controls</b>	
Amplifier gain	$-\infty$ to unity gain
Unmod gain	$-\infty$ to unity gain
Amp control mode	1 x sliding switch, Exponential / linear
Unmod / mod	2 x button, LED backlit
In A / B	$-\infty$ to unity gain
Ratio	$\pm 3$ V @ CV B output only
Tune	$\pm 3$ V @ CV A & CV B outputs
<b>Power</b>	
Power supply	Euro rack
Current draw	60 mA (+12 V), 45 mA (-12 V)
<b>Physical</b>	
Standard operating temperature range	5° C to 45° C (41° F to 113° F)
Dimensions	43 x 81 x 129 mm (1.7 x 3.2 x 5.1")
Rack units	16 HP
Weight	0.16 kg (0.35 lbs)

## FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION

MODAMP MODULE 1005

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

### **Important information:**

Changes or modifications to the equipment not expressly approved by Music Tribe can void the user's authority to use the equipment.



Hereby, Music Tribe declares that this product is in compliance with General Product Safety Regulation (EU) 2023/988, Directive 2014/30/EU, Directive 2011/65/EU and Amendment 2015/863/EU, Directive 2012/19/EU, Regulation 519/2012 REACH SVHC and Directive 1907/2006/EC.

Full text of EU DoC is available at <https://community.musictribe.com/>

**EU Representative:** Music Tribe Brands DK A/S

**Address:** Gammel Strand 44, DK-1202 København K, Denmark

**UK Representative:** Music Tribe Brands UK Ltd.

**Address:** 8th Floor, 20 Farringdon Street London EC4A 4AB, United Kingdom



Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE). The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office, or your household waste collection service.

### **CUSTOMER SUPPORT**

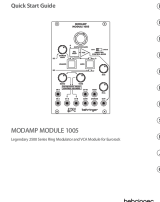
**Responsible Party Name:** Music Tribe Commercial NV Inc.

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8th Floor NY, NY 10168,

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Email Address: [legal@musictribe.com](mailto:legal@musictribe.com)

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## Documents / Resources

	<p><a href="#">behringer MODAMP MODULE 1005 Ring Modulator and VCA Module for Eurorack</a> [pdf] User Guide</p> <p>MODAMP MODULE 1005 Ring Modulator and VCA Module for Eurorack, MODAMP MODULE 1005, Ring Modulator and VCA Module for Eurorack, Modulator and VCA Module for Eurorack, VCA Module for Eurorack, Module for Eurorack</p>
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## References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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