

# GRAS 26CB-HT

1/4 CCP Standard Preamplifier with Microdot Connector



Freq range: 2.5 Hz - 200 kHz  
Noise: 1.8  $\mu$ V Gain: -0.35 dB  
Special feature: High temperatures

The GRAS 1/4 preamplifier is a general-purpose preamplifier optimized for use with prepolarized condenser microphones. It is a small, robust unit and uses a GRAS CCP power supply, e.g., GRAS 12AL. It has a very low inherent noise level, a large dynamic range, and a frequency response from below 2 Hz to above 200 kHz.

## Typical applications and use

- CCP inputs
- Prepolarized microphones
- 1/2"-inch precision microphones
- High levels and high frequencies

## Design

Its small ceramic thick-film substrate has a very high input impedance and is shielded by a guardring to minimize the influence of stray capacitance and microphonic interference. The GRAS 26CB-HT is delivered with a built-in TEDS chip and can be programmed as a single unit with a microphone fitted.

The diameter is 6.35 mm (1/4"), length 44 mm and weight 8g (0.3oz)

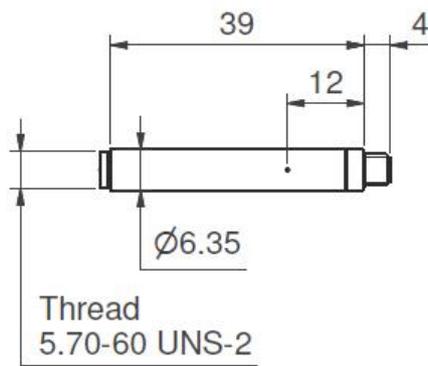
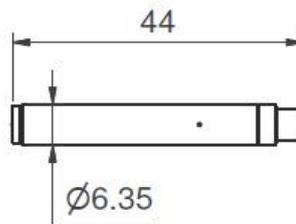
It can be used with all prepolarized microphones, such as GRAS 40BE and 40BD 1/4" microphone and GRAS 40AE, 40AD, and 40AQ 1/2" microphones using the included GRAS GR0010 Adapter for 1/4" preamplifier and 1/2" microphone. It has an integrated Microdot output connector. The casing is made of stainless steel for maximum strength and durability.

Frequency range ( $\pm 0.2$ dB) with 18 pF microphone dummy	Hz	2.5 to 200 k
Slew rate	V/ $\mu$ s	20
Input impedance	G $\Omega$ // pF	20 // 0.4
Output impedance	$\Omega$	< 50
Output Voltage Swing, min. @ 24-28 V CCP voltage supply	Vp	8
Noise (A-Weighted) max.	$\mu$ V	2.5
Noise (A-Weighted) typ.	$\mu$ V	1.8
Noise (Linear 20 Hz – 20 kHz) max.	$\mu$ V	6
Noise (Linear 20 Hz – 20 kHz) typ.	$\mu$ V	3.5
Gain	dB	-0.35
Power supply (Constant Current Power)	mA	2 to 20 (typ. 4)
DC bias voltage, typ.	V	12
Temperature range, operation	$^{\circ}$ C / $^{\circ}$ F	-30 to 120 / -22 to 248
Temperature range, storage	$^{\circ}$ C / $^{\circ}$ F	-40 to 85 / -40 to 185
Humidity range non condensing	% RH	0 - 95
TEDS (IEEE 1451.4)		769 v. 0.9
Connector type		Microdot 10/32
CE/RoHS compliant/WEEE registered		Yes / Yes, Yes
Weight	g / oz	8.0 / 0.28

Conditions: 23  $^{\circ}$ C Ambient temperature, 4 mA / 24 V open loop CCP voltage, 18 pF dummy microphone, 3 m output coax-cable.

GRAS Sound & Vibration reserves the right to change specifications and accessories without notice.

Dimensions in mm



## Included items

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[GR0010](#) Adapter for 1/4" preamplifier and 1/2" microphone

## Optional items

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[GRAS AA0018](#) 3 m Microdot - BNC Cable, High Temp

[GRAS AA0064](#) 3 m Microdot - Microdot Cable, High Temp

[GRAS AL0029](#) 1/4" Microphone Holder, POM

[GRAS AL0013](#) 1/4" Microphone Holder, Stainless Steel

[GRAS AL0005](#) Swivel head

[GRAS AL0006](#) Tripod

[GRAS RA0063](#) Adapter for 1/8" microphone and 1/4" preamplifier

[GRAS RA0006](#) Right-angled (90°) Adapter for 1/4" Microphone and 1/4" Preamplifier

[GRAS RA0080](#) 6pF Preamplifier-input adapter for 1/4" microphones

[GRAS 12AL](#) 1-Channel CCP Power Module with A-weighting filter

[GRAS 12AQ](#) 2-Channel Universal Power Module with signal conditioning and PC interface

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# GRAS Worldwide

Subsidiaries and distributors in more than 40 countries

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## About GRAS Sound & Vibration

GRAS is a worldwide leader in the sound and vibration industry. We develop and manufacture state-of-the-art measurement microphones to industries where acoustic measuring accuracy and repeatability is of utmost importance in R&D, QA and production. This includes applications and solutions for customers within the fields of aerospace, automotive, audiology, and consumer electronics. GRAS microphones are designed to live up to the high quality, durability and accuracy that our customers have come to expect and trust.

GRAS Sound & Vibration is represented through subsidiaries and distributors in more than 40 countries and is part of Axiometrix Solutions, a leading test solutions provider comprised of globally recognized measurement brands. Read more at [www.GRASacoustics.com](http://www.GRASacoustics.com)

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