

# GRAS 26CC

1/4" CCP Standard Preamplifier with SMB Connector



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

The GRAS 26CC 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
- Plugs into Array Module PR0001(-1)
- Prepolarized microphones
- 1/4" precision microphones
- High levels and high frequencies

## Design

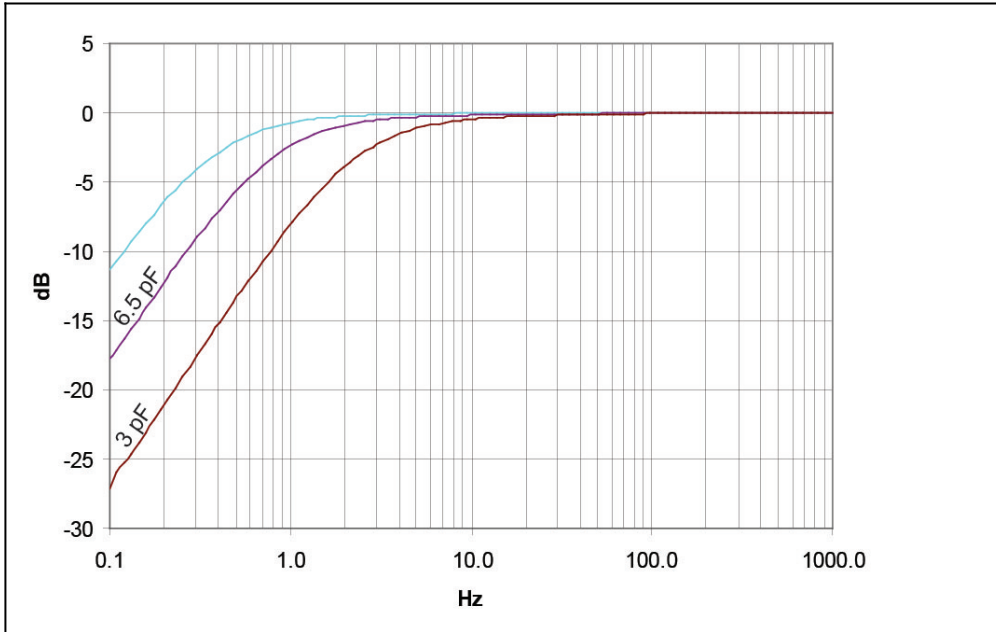
The GRAS 26CC 1/4" Preamplifier's small ceramic thick-film substrate has a very high input impedance, and is shielded by a guard ring to minimise the influence of stray capacitance and microphonic interference.

The 26CC is delivered with a built-in TEDS chip, and can be programmed as a single unit with a microphone fitted. It can be used with GRAS 40BE and 40BD ¼-inch prepolarized microphones and 40AE, 40AD and 40AQ ½-inch microphones using the included GRAS GR0010 Adapter for 1/4" preamplifier and 1/2" microphone.

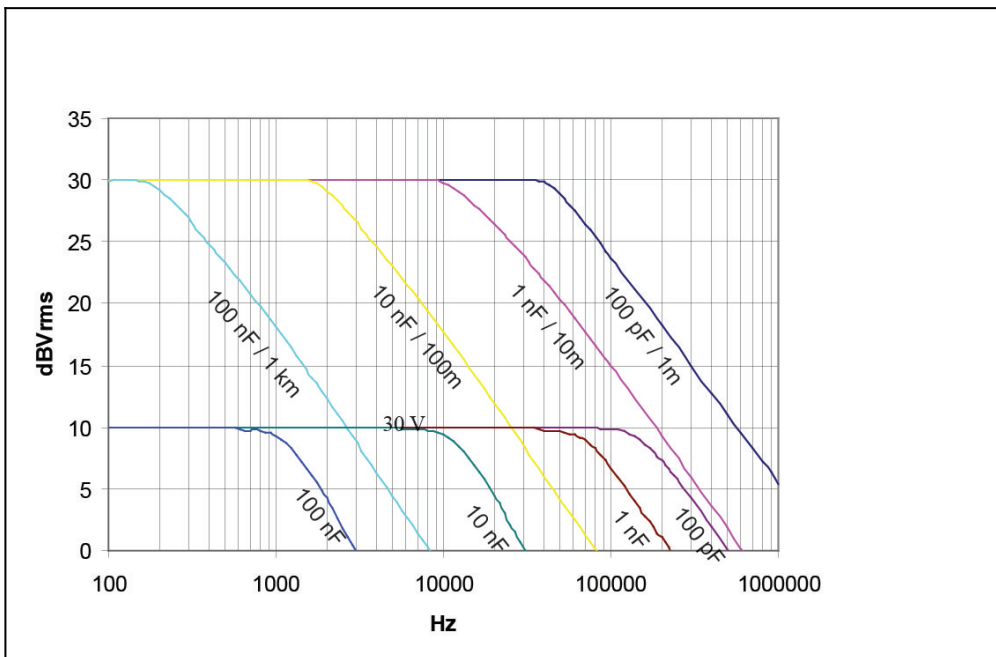
SMB-to-BNC cables in standard and customized lengths are available. The casing is made of stainless steel for maximum strength and durability.

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	V <sub>p</sub>	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 70 / -22 to 158
Temperature range, storage	$^{\circ}$ C / $^{\circ}$ F	-40 to 85 / -40 to 185
Humidity range non condensing	% RH	0 - 95
TEDS UTID (IEEE 1451.4)		769 v. 0.9
Connector type		SMB
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 coax-cable.

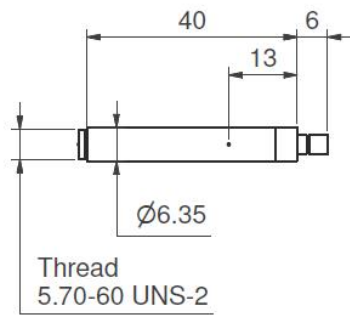
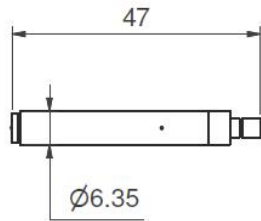


Typical low-frequency response of Type 26AL for 1/2 (20 pF), 1/4 (6.5 pF) and 1/8 (3 pF) microphones



Typical max. rms output signal with 120 V and 30 V supply GRAS Sound & Vibration reserves the right to change specifications and accessories without notice.

Dimensions in mm



## Included items

<a href="#">GRAS GR0010</a>	Adapter for 1/4" preamplifier and 1/2" microphone
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## Optional items

<a href="#">GRAS AA0027</a>	3 m SMB - BNC Cable
<a href="#">GRAS AA0082-CL</a>	Customized Length SMB - BNC Cable
<a href="#">GRAS AL0029</a>	1/4" Microphone Holder, POM
<a href="#">GRAS AL0013</a>	1/4" Microphone Holder, Stainless Steel
<a href="#">GRAS AL0005</a>	Swivel head
<a href="#">GRAS AL0006</a>	Tripod
<a href="#">GRAS RA0063</a>	Adapter for 1/8" microphone and 1/4" preamplifier
<a href="#">GRAS RA0006</a>	Right-angled (90°) Adapter for 1/4" Microphone and 1/4" Preamplifier
<a href="#">GRAS RA0080</a>	6pF Preamplifier-input adapter for 1/4" microphones
<a href="#">GRAS 12AL</a>	1-Channel CCP Power Module with A-weighting filter
<a href="#">GRAS 12AQ</a>	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

## HEAD OFFICE, DENMARK GRAS SOUND & VIBRATION

Skovlytoften 33  
2840 Holte  
Denmark  
Tel: +45 4566 4046  
[www.grasacoustics.com](http://www.grasacoustics.com)  
[gras@grasacoustics.com](mailto:gras@grasacoustics.com)

## USA GRAS SOUND & VIBRATION

5750 S.W. Arctic Drive  
Beaverton, OR 97005  
Tel: 503-627-0832  
Toll Free: 800-231-7350  
[www.grasacoustics.com](http://www.grasacoustics.com)  
[sales-usa@grasacoustics.com](mailto:sales-usa@grasacoustics.com)

## CHINA GRAS SOUND & VIBRATION

Room 303, Building T6  
Hongqiaohui, 990, Shenchang Road  
Minhang District, Shanghai  
China, 201106  
Tel: +86 21 64203370  
[www.gras.com.cn](http://www.gras.com.cn)  
[cnsales@grasacoustics.com](mailto:cnsales@grasacoustics.com)



## 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