

GRAS 26CT

1/4" CCP Standard Preamplifier with
SMB Connector, Very Short



Freq range: 2.5 Hz - 200 kHz
Noise: 1.8 μ V Gain: -0.45 dB
Special feature: For confined spaces

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The GRAS 26CT 1/4" Preamplifier is a very small preamplifier optimized for use with prepolarized condenser microphones. It is a robust unit and uses a CCP power supply. 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

- Confined spaces
- High-frequency measurements
- High-pressure measurements
- Sound intensity measurements
- Near-field measurements
- Anechoic boxes
- Hearing-aid measurements

Design

Its 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 26CT is delivered with Generation II TEDS. The calibration data is programmed into the built-in TEDS according to IEEE 1451.4 using UDID I27-0-0-0U. If your measurement platform supports Transducer Electronic Data Sheets you will be able to read and write data like properties and calibration data.

Generation II TEDS chip (DS2431) may require updated system software.

It can be used with GRAS 40BE and 40BD 1/4" and 40AE, 40AD and 40AQ 1/2" prepolarized microphones using the included GRAS GR0010 Adapter for 1/4" preamplifier and 1/2" microphone.

The 26CT has an integrated SMB connector. SMB-to-BNC cables are available, also with angled SMB. The casing is made of stainless steel for maximum strength and durability.



Frequency range (± 0.2 dB) with 18 pF microphone dummy	Hz	2.5 to 200 k
Slew rate	V/ μ s	20
Input impedance	G // pF	20 // 0.4
Output impedance		< 50
Output Voltage Swing, min. @ 24-28 V CCP voltage supply	Vp	8
Noise (A-Weighted) max.	μ V	2.5
Noise (A-Weighted) typ.	μ V	1.8
Noise (Linear 20 Hz – 20 kHz) max.	μ V	6
Noise (Linear 20 Hz – 20 kHz) typ.	μ V	3.5
Gain	dB	-0.45
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 to 95
TEDS UDID (IEEE 1451.4)		I27-0-0-0U
Connector type		SMB
CE/RoHS compliant/WEEE registered		Yes / Yes, Yes
Weight	g / oz	4.0 / 0.14
Specification Conditions		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

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Page: 4



Included items

GR0010	Adapter for 1/4" preamplifier and 1/2" microphone
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Optional items

GRAS AA0027	3 m SMB - BNC Cable
GRAS AA0082-CL	Customized Length SMB - BNC Cable
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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We Make Microphones

Tradition

Since the establishment in 1994, GRAS has been 100% dedicated to developing and manufacturing high-quality measurement microphones and related acoustic equipment.

Innovation

We work with everybody with an interest in sound or noise within the fields of aerospace, automotive, audiology, consumer electronics, noise monitoring, building acoustics and telecommunications.

Quality

At GRAS we know that in order for you to trust your measurement results; signal quality, stability and robustness are essentials. We design and build them to perform under real life conditions – and beyond.

