

GRAS 26AK

1/2" Standard Preamplifier with Integrated Connector



Freq range: 0.5 Hz to 200 kHz
Noise: 1.8 μ V Gain: -0.25 dB
Special feature: General purpose

The 26AK is a 1/2" microphone preamplifier with integrated 7-pin LEMO male connector. The CCP equivalent is GRAS 26CA.

Introduction

GRAS 26AK is a preamplifier designed for general purpose in the laboratory and field and accommodates directly all IEC 61094 standardized ½" externally polarized measurement microphones.

It is rugged and reliable and can handle microphone signals up to 50 Vpeak within 0.5 Hz to 200 kHz. The printed circuit board is made by use of thick-film substrate technology and optimized with respect to maximum suppression of microphonics and moisture rejection.

The high-quality, standard 7-pin LEMO male connector is integrated into the preamplifier and ensures that only one type of connector and cable is required for both connection and extension.

26AK is factory calibrated individually and delivered with a calibration chart stating its A-weighted and linear self-noise.

Compatibility

26AK is compatible with ½-inch microphones as defined in international standard IEC1094 Measurement Microphones, Part 4: Specifications for working standard microphones. The mounting thread (11.7 mm - 60 UNS-2) is compatible with other available makes of similar microphone preamplifiers.

GRAS 26AK is integrated with a 7-pin LEMO series 1B plug.

Connector

LEMO connector 1B male (Outside view)

Pin 6: Positive supply Pin 1: Not used

Pin 5: Not used Pin 2: Signal Ground

Pin 4: Signal Output Pin 3: Polarization 200V

Pin 7: Negative supply or Single supply GND

Voltage supply: Single 28-120V or Dual ±14V to ±60V

7-pin LEMO 1B male (ext. view)

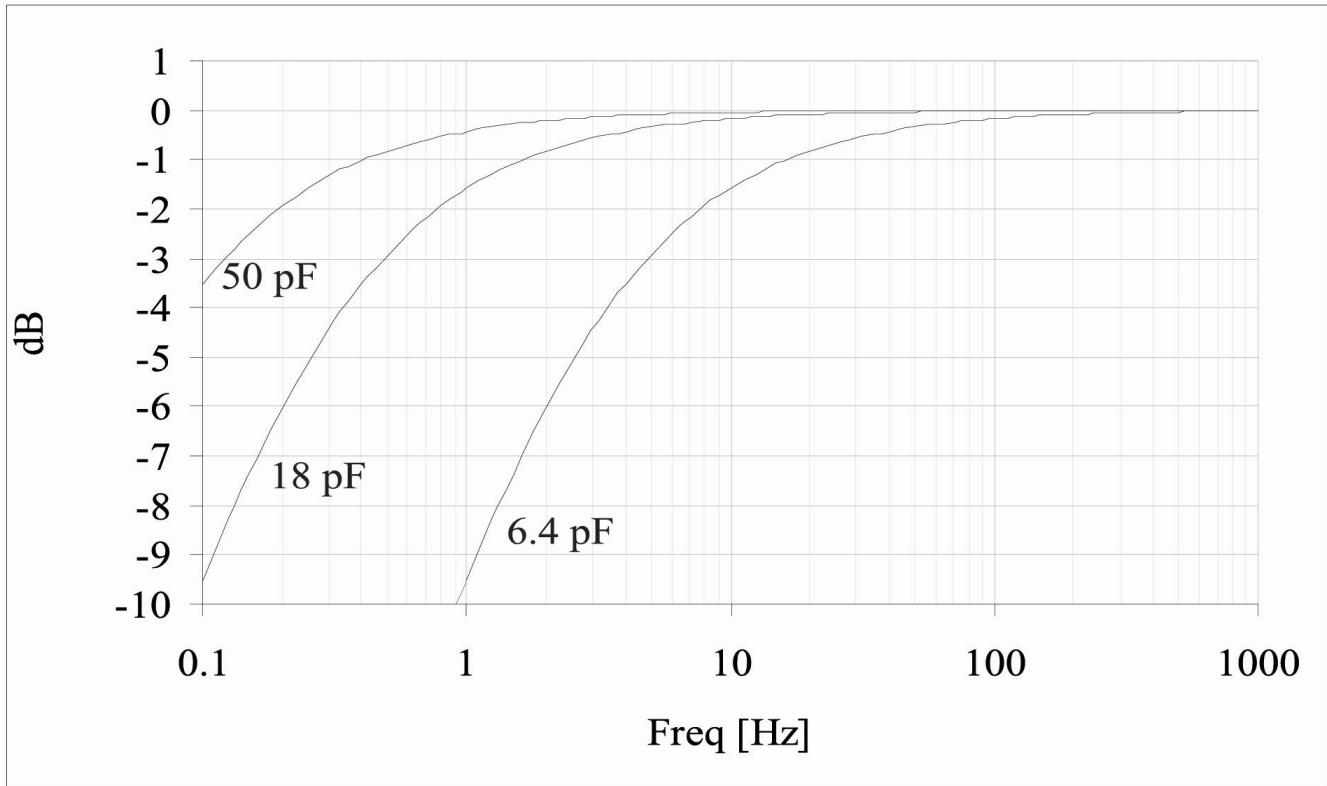
Specifications

**GRAS 26AK 1/2" Standard
Preamplifier with Integrated
Connector**

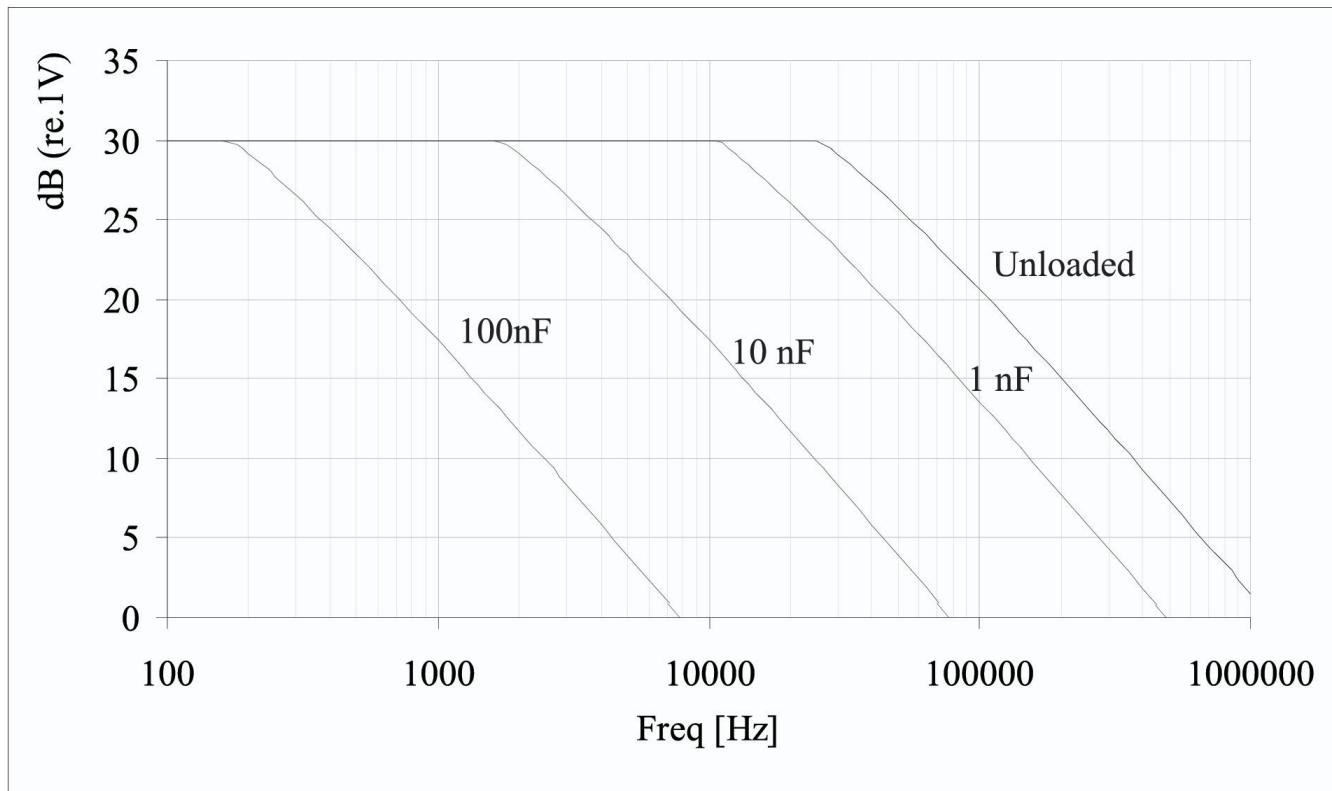
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Frequency range (± 0.2 dB) with 18 pF microphone dummy	Hz	2.5 to 200 k
Slew rate	V/ μ s	20
Input impedance	G Ω // pF	20 // 0.4
Output impedance	Ω	75
Output Voltage Swing, max. @ $\pm 14V/+28V$ power supply	Vp	12
Output Voltage Swing, max. @ $\pm 60V/+120V$ power supply	Vp	50
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	-0.25
Power supply, single	V	28 to 120
Power supply, balanced	V	± 14 to ± 60
DC-offset, min., single supply	V	0.5 x Vs - 1
DC-offset, max., single supply	V	0.5 x Vs + 4
DC-offset, balanced supply	V	-1 to 4
Temperature range, operation	°C / °F	-30 to 70 / -22 to 158
Temperature range, storage	°C / °F	-40 to 85 / -40 to 185
Humidity range non condensing	% RH	0 to 95
Connector type		7-pin LEMO (FGG.1B.307)
CE/RoHS compliant/WEEE registered		Yes / Yes, Yes
Weight	g / oz	35.0 / 1.24

Conditions: 23 °C Ambient temperature, $\pm 60V/+120V$ power supply, 18 pF dummy microphone, 3 m output cable.



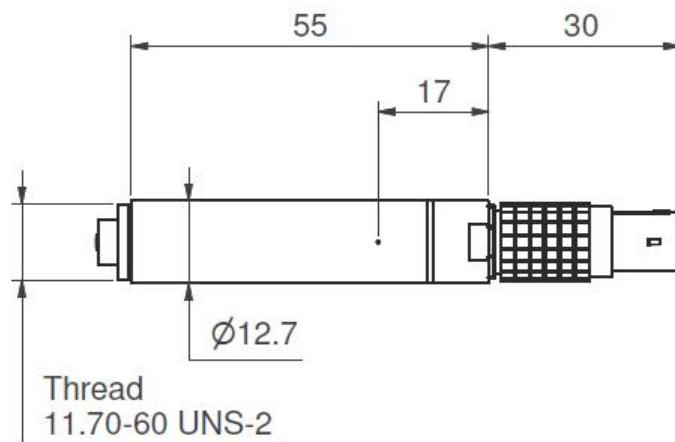
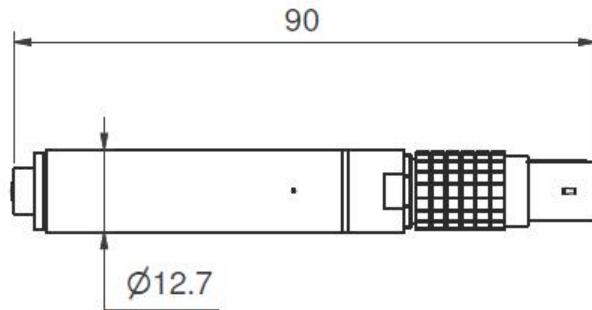
Low frequency response for various microphone capacities



Max. RMS output signal for various cable loads with 120 V supply

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

Dimensions in mm



Optional items

GRAS AA0008	3 m LEMO 7-pin - LEMO 7-pin Cable
GRAS AL0008	1/2" Microphone Holder, POM
GRAS AL0012	1/2" Microphone Holder, Stainless Steel
GRAS AL0005	Swivel head
GRAS AL0006	Tripod
GRAS RA0019	Adapter for 1/4" microphone and 1/2" preamplifier
GRAS RA0073	Adapter for 1" microphone and 1/2" preamplifier
GRAS RA0190	Right-angled (90°) Adapter for 1/2" Microphone and 1/2" Preamplifier
GRAS RA0016	20 dB Attenuator for externally polarized 1/2" microphones
GRAS RA0062	20 pF Preamplifier-input Adapter for 1/2" preamplifiers
GRAS 12AA	2-Channel Power Module with gain, filters and SysCheck generator
GRAS 12AQ	2-Channel Universal Power Module with signal conditioning and PC interface

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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 and related equipment for industries where acoustic measuring accuracy and repeatability are of the utmost importance. This includes applications and solutions for customers within the fields of aerospace, automotive, audiology, consumer electronics and other highly demanding industries. GRAS microphones are designed to live up to the high quality, durability and accuracy that our customers have come to expect, trust and require. 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

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