Product Data and Specifications

Features and applications

- 0 dB and +20 dB gain settings
- Linear, A-weighting and high-pass filter (20 Hz) settings
- CCP¹ inputs
- Prepolarized microphones
- ¹/₂-inch precision microphones
- High levels and high frequencies

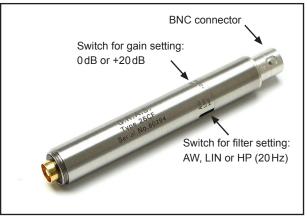


Fig. 1 ¹/₂-inch Preamplifier Type 26CF

The G.R.A.S. ¹/₂-inch Preamplifier Type 26CF (Fig. 1) is a general purpose preamplifier optimised for use with prepolarized condenser microphones. It is a small, robust unit and uses a G.R.A.S. CCP¹ power supply, e.g. Type 12AL. It has low inherent noise level, a large dynamic range and a frequency response from 2.5 Hz to 100 kHz.

Gain and filter switch settings

There are two flush-mounted switches for selecting various combinations of gain and filtering, i.e.:

Gain switch settings:

0 dB - for normal microphone signals.

 $+20\,dB$ - for boosting weak microphone signals.

Filter switch settings:

A-Weighting - as required in standard measurements.

Linear - to let the microphone signal pass unfiltered.

High-pass - to cut off unwanted low frequencies.

The frequency responses of the A-weighting filter is shown in Fig. 2.

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 Type 26CF can be used with all G.R.A.S. prepolarized microphones, namely:

¹/₂-inch microphones: Types 40AE, 40AD and 40AQ

¹/₄-inch microphones: Types 40BE and 40BD, using the optional ¹/₂-inch to ¹/₄-inch adaptor RA0019

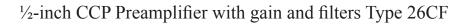
It has an integrated BNC output connector.

The casing is made of stainless steel for maximum strength and durability.

G.R.A.S. Sound & Vibration

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CCP stands for "Constant Current Power" and describes G.R.A.S. power supplies that maintain a constant level of current for driving IEPE transducers like this preamplifier which can be used with prepolarized microphones such as Types 40AD, 40AE, 40AO and 40AQ.



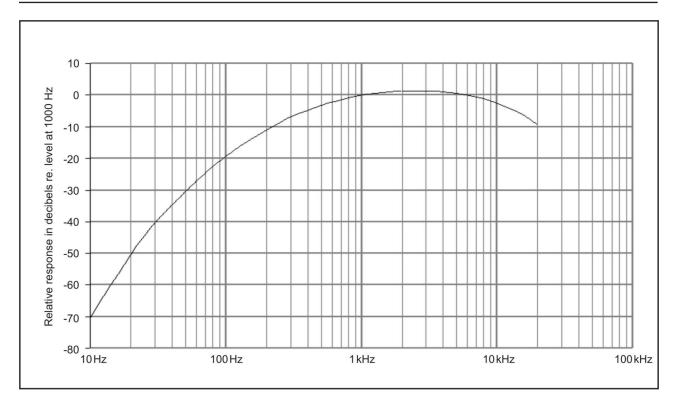


Fig. 2 Frequency resonse of A-weighting \Box *lter shown graphically (compliant with IEC 61672-1 Class 1)*

Specifications

Frequency response (cable load 4.7 nF): $2.5 \text{ Hz} - 100 \text{ kHz} \dots \pm 0.2 \text{ dB}$ (typical for 0 dB gain and linear setting)Input impedance: $20 \text{ G} \Omega, 0.4 \text{ p} \text{ F}$ Output impedance (Cs = 20 p F, f=1000Hz): $< 50 \Omega$ Noise (measured with 20 pF ½-inch dummy mic.):	Power-supply: 4 mA to 20 mA (typically 4 mA) Maximum signal-output voltage (peak): ± 5.0 V Temperature: 0peration:30 °C to + 70 °C Storage:40 °C to + 85 °C Relative humidity:
Noise (measured with 20 pr $\frac{1}{2}$ -inch duffing mic.):Linear, 0 dB:Linear, 20 dB:A-weighted, 0 dB:typically 10 μ V rmsHigh pass, 0 dB:typically 10 μ V rms	Connector type: 0 to 95 % BNC
A-weighting filter: Compliant with IEC 61672-1 Class 1 High-pass filter: 3-pole butterworth, -3 dB at 20 Hz Gain: Typically:0.25 dB	Dimensions and weight: Diameter: 12.7 mm (½-inch) Length: 92 mm (3.6 inches) Weight: 30 g (1 oz)

G.R.A.S. Sound & Vibration reserves the right to change specifications and accessories without notice

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