

# GRAS 40DD

1/8"



6.5 Hz - 70 kHz  
49 dB(A) - 175 dB  
0.9 mV/Pa

40DD	IEC 61094	1/8"	IEC 61094-4
		174 dB	6 Hz -
140 kHz			

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40DD IEC 61094 1/8"  
[40DP](#)

[GRAS](#)

IEC 61094-4  
dB 6 Hz - 140 kHz

174

GRAS 5

□□

40DD

GRAS

40DD-FV 1/8"

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40DD

40DD 67SB

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40DD 1/8" 1/4"

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[GRAS 42AG](#)

[GRAS 42AP](#)

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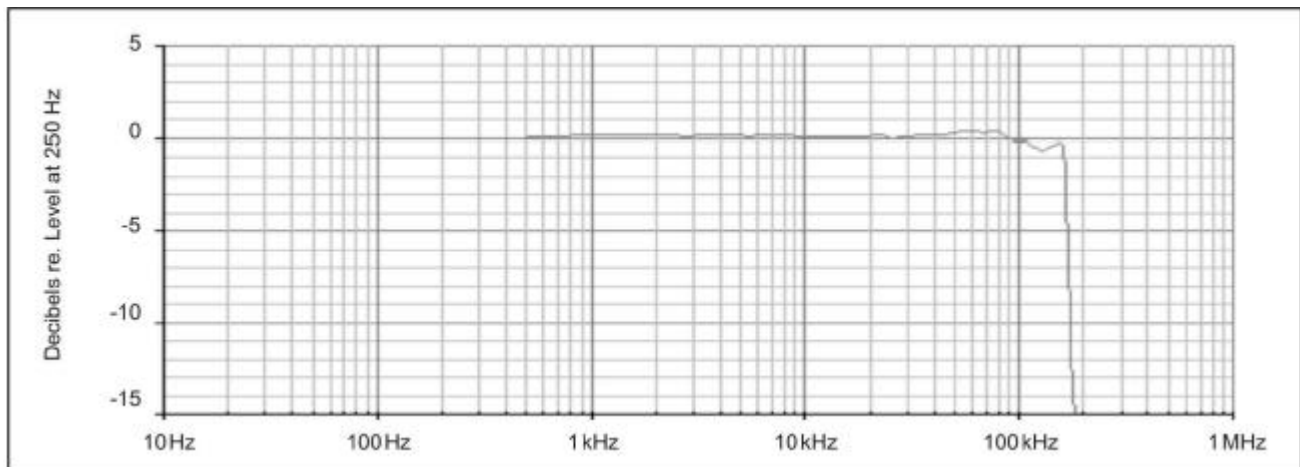
GRAS GRAS ISO 17025 DANAK

[gras/calib](#)

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GRAS

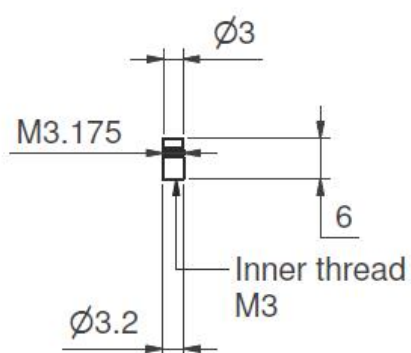
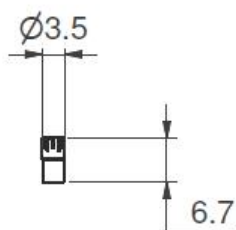
Polarization/Connection		0 V / CCP
Frequency range ( $\pm 1$ dB)	Hz	10 to 25 k
Frequency range ( $\pm 2$ dB)	Hz	6.5 to 70 k
Frequency range ( $\pm 3$ dB)	Hz	6.5 to 140 k
Dynamic range lower limit (microphone thermal noise)	dB(A)	49
Dynamic range lower limit with GRAS preamplifier	dB(A)	52
Dynamic range upper limit	dB	175
Dynamic range upper limit with GRAS preamplifier @ +28 V / $\pm 14$ V power supply	dB	175
Dynamic range upper limit with GRAS preamplifier @ +120 V / $\pm 60$ V power supply	dB	175
Dynamic range upper limit with GRAS CCP preamplifier	dB	175
Open-circuit sensitivity @ 250 Hz ( $\pm 3$ dB)	mV/Pa	0.9
Resonance frequency	kHz	160
Microphone cartridge capacitance, typ.	pF	3.5
Microphone venting		Rear
IEC 61094-4 Compliance		WS3P
Temperature range, operation	$^{\circ}\text{C}$ / $^{\circ}\text{F}$	-40 to 120 / -40 to 248
IEC 61094-4 Designation		WS2F
Temperature range, storage	$^{\circ}\text{C}$ / $^{\circ}\text{F}$	-40 to 85 / -40 to 185
Temperature coefficient @250 Hz	dB/ $^{\circ}\text{C}$ / dB/ $^{\circ}\text{F}$	-0.01 / -0.006
Humidity range non condensing	% RH	0 to 90
Static pressure coefficient @250 Hz	dB/kPa	-0.014
Humidity coefficient @250 Hz	dB/% RH	-0.001
Influence of axial vibration @1 m/s <sup>2</sup>	dB re 20 $\mu\text{Pa}$	59
CE/RoHS compliant/WEEE registered		Yes / Yes, Yes
Weight	g / oz	1.5 / 0.053



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GRAS Sound & Vibration

Dimensions in mm



GRAS 40DD	1/8"	
GRAS 40DD-FV	1/8"	40DD
GRAS CA0001		
GRAS CA2001		

GRAS Sound & Vibration

# 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 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](http://www.grasacoustics.com)

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An Axiometrix Solutions Brand