

Model Number  
377B26

# ICP<sup>®</sup> PROBE MICROPHONE

Revision: A  
ECN #: 42045

## Performance

	ENGLISH	SI	
Open Circuit Sensitivity (at 250 Hz)	2.15 mV/Pa	2.15 mV/Pa	[5]
Open Circuit Sensitivity (±2 dB) (at 250 Hz)	-53.35 dB re 1 V/Pa	-53.35 dB re 1 V/Pa	[5]
Frequency Range (+2.2/-4.9 dB)	2 to 20,000 Hz	2 to 20,000 Hz	[6]
Lower Limiting Frequency (-3 dB)	0.25 to 3.0 Hz	0.25 to 3.0 Hz	
Dynamic Range (3% Distortion Limit)	>164 dB re 20 µPa	>164 dB re 20 µPa	
Inherent Noise	<45 dB(A) re 20 µPa	<45 dB(A) re 20 µPa	

## Environmental

	ENGLISH	SI	
Temperature Range (Operating)	-40 to +158 °F	-40 to +70 °C	[2]
Temperature Range (20mm Probe Tip)	-40 to +752 °F	-40 to +400 °C	[3]
Temperature Range (40mm Probe Tip)	-40 to +1472 °F	-40 to +800 °C	[3][4]
Temperature Range (80mm Probe Tip)	-40 to +1472 °F	-40 to +800 °C	[3][4]
Temperature Range (160mm Probe Tip)	-40 to +1472 °F	-40 to +800 °C	[3][4]

## Electrical

	ENGLISH	SI	
Polarization Voltage	0 V	0 V	[1]
Excitation Voltage	20 to 32 VDC	20 to 32 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	<50 Ohm	<50 Ohm	

## Physical

	ENGLISH	SI	
Housing Material	Stainless Steel	Stainless Steel	
Probe Material	Stainless Steel	Stainless Steel	
Electrical Connector	BNC Jack	BNC Jack	
Size (Diameter)	0.5 in	12.7 mm	
Size (Length)	4.4 in	111 mm	
Weight	1.9 oz	55 gm	[7]

## OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

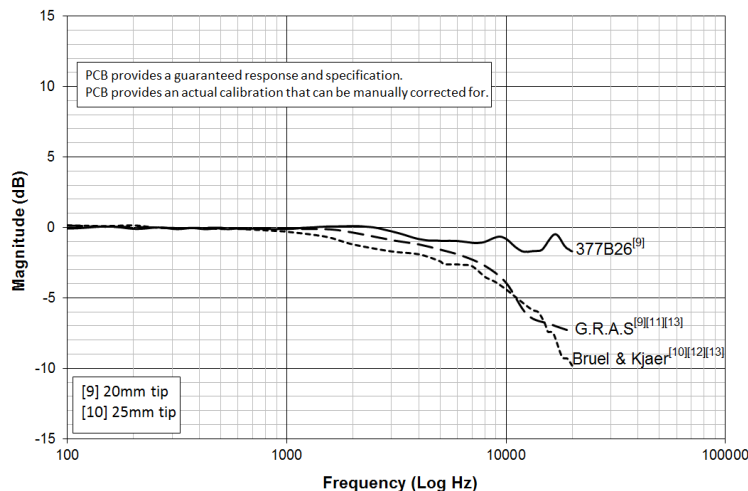
## NOTES:

- [1] Pre-polarized
- [2] Probe microphone body
- [3] At probe tip end
- [4] With heat sink
- [5] Individually calibrated with 20mm probe tip
- [6] Individually calibrated with 20mm probe tip (20 Hz to 20 kHz)
- [7] Typical
- [8] See PCB Declaration of Conformance PS076 for details
- [9] 20mm probe tip
- [10] 25mm probe tip
- [11] G.R.A.S. data derived from 40SC Product Manual, Revision 31 07 2007
- [12] Bruel & Kjaer data derived from 4182 Product Datasheet, BP 0659-15 95/04
- [13] Information based on published specifications of G.R.A.S. and Bruel & Kjaer at time of posting.

## SUPPLIED ACCESSORIES:

- Model 012A10 Extension cable, black coaxial (RG58/U), 10-ft, BNC plug to BNC plug (1)
- Model 100-11129-30 FILE (1)
- Model 100-11509-90 GREASE (1)
- Model 51606-01 HEAT SINK/DISC TOOL (1)
- Model 51607-01 CALIBRATION ADAPTOR FOR METAL PROBE (1)
- Model 51607-02 CALIBRATION ADAPTOR FOR FLEXIBLE PROBE (1)
- Model 53434-01 20mm PROBE TIP (1)
- Model 53434-02 40mm PROBE TIP (1)
- Model 53434-03 80mm PROBE TIP (1)
- Model 53434-04 160mm PROBE TIP (1)
- Model 54073-01 CLEANING TUBE (1)
- Model 55103-01 PLIERS (1)
- Model 55454-01 FLEXIBLE TUBING (1)
- Model 55455-01 80mm FLEXIBLE PROBE TIP (1)
- Model 56508-01 CALIBRATION COUPLER (1)
- Model ACS-42 CALIBRATION OF MICROPHONE WITH PREAMPLIFIER (1)

Typical Frequency Response



Entered: AMP	Engineer: MJN	Sales: MJV	Approved: MT	Spec Number:
Date: 11/27/13	Date: 11/26/13	Date: 11/26/13	Date: 11/26/13	<b>54896</b>



All specifications are at room temperature unless otherwise specified.  
In the interest of constant product improvement, we reserve the right to change specifications without notice.  
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