

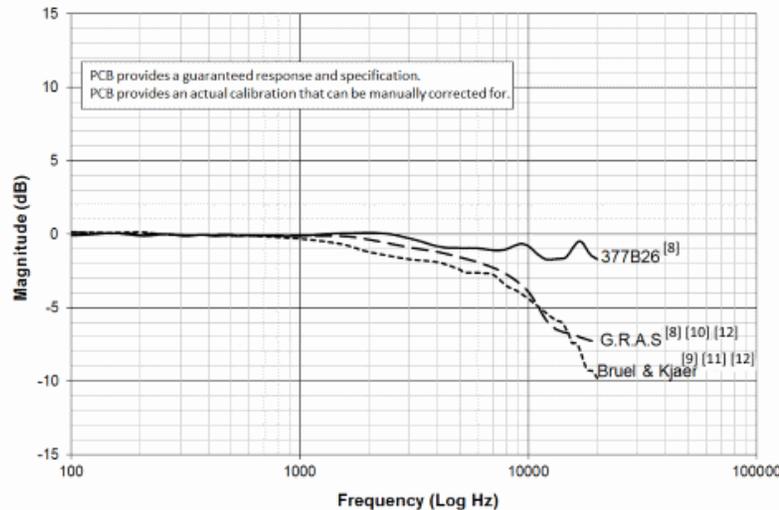
Model Number <b>377B26</b>	<b>PROBE MICROPHONE ICP®</b>	Revision: C ECN #: 46429
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Performance	ENGLISH	SI	
Sensitivity(at 250 Hz)	2.15 mV/Pa	2.15 mV/Pa	[6]
Sensitivity(± 2dB)(at 250 Hz)	-53.35 dB re 1 V/Pa	-53.35 dB re 1 V/Pa	[6]
Frequency Range(+2.2/-4.9 dB)	2 to 20,000 Hz	2 to 20,000 Hz	[7]
Frequency Response	See Graph	See Graph	[8][9][10][11][12]
Lower Limiting Frequency(-3 dB)	0.25 to 3.0 Hz	0.25 to 3.0 Hz	
Inherent Noise	44 dB(A) re 20 µPa	44 dB(A) re 20 µPa	[5]
Dynamic Range(3% Distortion Limit)	165 dB re 20 µPa	165 dB re 20 µPa	[5]
<b>Environmental</b>			
Temperature Range(Operating)	-40 to +158 °F	-40 to +70 °C	[2]
Temperature Range(160mm Probe Tip)	-40 to +1472 °F	-40 to +800 °C	[3][4]
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]
Influence of Axial Vibration(0.1g (1 m/s²))	62 dB re 20 µPa	62 dB re 20 µPa	[5]
<b>Electrical</b>			
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 Bias Voltage	10 to 14 VDC	10 to 14 VDC	
Maximum Output Voltage	+/-8 Vpk	+/-8 Vpk	
Output Impedance	<50 Ohm	<50 Ohm	
<b>Physical</b>			
Housing Material	Stainless Steel	Stainless Steel	
Probe Material	Stainless Steel	Stainless Steel	
Electrical Connector	BNC Jack	BNC Jack	
Size (Diameter)(with grid)	0.5 in	12.7 mm	
Size (Length)	4.4 in	111 mm	
Weight	1.9 oz	55 gm	[5]

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

**Typical Frequency Response**



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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**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)

Entered: LK	Engineer: MJN	Sales: MV	Approved: MT	Spec Number:
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