



ACO Pacific, Inc.

2604 Read Ave., Belmont, CA 94002, USA
Tel: 1-650-595-8588 Fax: 1-650-591-2891

www.acopacific.com sales@acopacific.com

7052E

Free Field

1/2 Inch Prepolarized Microphone
IEC61094-4 Compliant WS2F*

- No External Polarization Required
- Plasma Coated Electret Material
- Burned In at >200C
- Excellent long term stability
- Extended Operating Temperature
- Stainless Steel Diaphragm
- Non Magnetic, Chemically Resistant
- Robust Grid Construction
- Excellent Humidity Performance
- 3 Hz to 25 kHz response +/- 3dB typ.
- Wide Dynamic Range
- Low Noise <18 dBA
- 150 dB SPL 3% THD
- High Sensitivity -29 dBV/Pa (35 mV)



Specifications:

Open Circuit Specifications

Frequency Response +/- 3dB	3 Hz to 25kHz +/- 3dB typ
Sensitivity dBV/Pa (mV/Pa) +/- 3dB	-29dBV/Pa (35 mV/Pa) typ
Dynamic Range(3% THD)	<18 dBA to 150 dB SPL
Nominal Cartridge Capacitance	18 pF
Temperature Coefficient(-10 to 50C)	<0.01 dB/C
Static Pressure coefficient	0.008dB/kPa
Influence of Humidity 55C 95%	<0.08 dB
Long-term Stability 20C	250 years/dB

Mechanical Dimensions

Height of Cartridge w/Grid	13.0 mm
without Grid	12.0 mm
Diameter with Grid	13.2 mm
Without Grid	13.2 mm
Grid Thread	12.7 mm 60UNS2
Mounting Thread	12.7 mm 60UNS2
Grid Pattern	Precision Holes

Model TYPE 7052E
Option No. 65206

S/N 57

GO

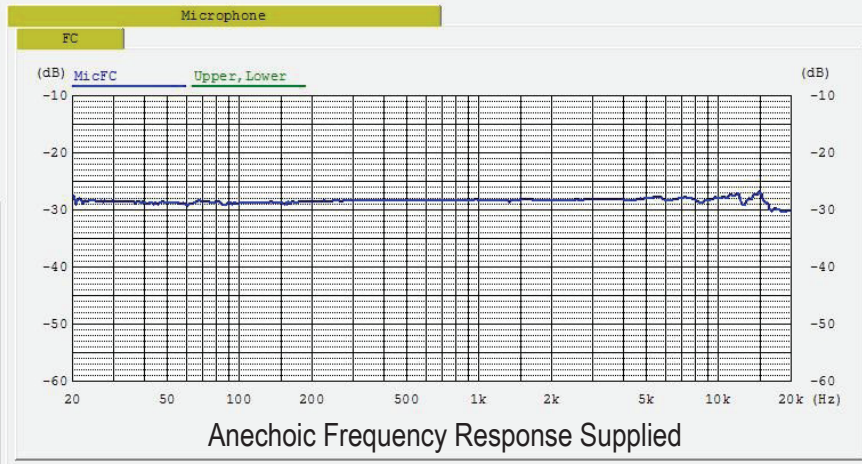
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Microphone

Sense (dB)	Pol	ECM-CC (uA)
-28.59		
Sense (mV/Pa)		
37.20		

User information field

Temperature: 22 °C
Humidity: 31 %
Barometric pressure: 998 hpa
Date: 2016/02/02



*IEC61094-4 Electroacoustic Sec7.2 & 7.3

ACOustics begins with ACO™

DS7052E v3 20180518



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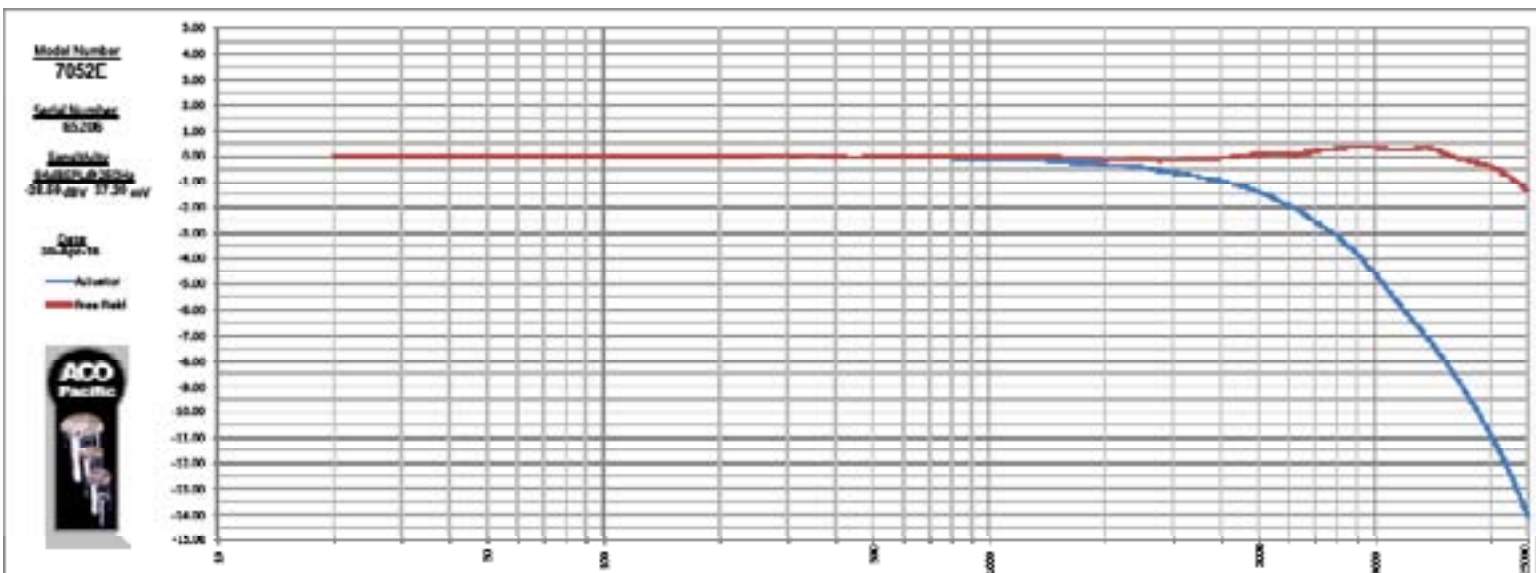
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Electrostatic Actuator to Free Field Correction Factors

Frequency Hz	FF Correction	Frequency Hz	FF Correction
20	0	1120	0.1
25	0	1250	0.15
31.5	0	1400	0.15
40	0	1600	0.175
50	0	1800	0.19
63	0	2000	0.22
80	0	2240	0.26
100	0	2500	0.35
112	0	2800	0.42
125	0	3150	0.56
140	0	3550	0.71
160	0	4000	0.91
180	0	4500	1.2
200	0	5000	1.49
224	0	5600	1.84
250	0	6300	2.2
280	0.005	7100	2.82
315	0.01	8000	3.44
355	0.012	9000	4.18
400	0.019	10000	4.92
450	0.025	11200	5.8
500	0.028	12500	6.69
560	0.03	14000	7.58
630	0.04	16000	8.47
710	0.05	18000	9.48
800	0.06	20000	10.5
900	0.06	22400	11.6
1000	0.1	25000	12.7



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7052Ev3 20180518