

Model Number 130A24	ICP® ELECTRET ARRAY MICROPHONE	Revision: C ECN #: 45945
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Performance	<u>ENGLISH</u>	<u>SI</u>	
Nominal Microphone Diameter	1/2"	1/2"	
Frequency Response Characteristic(at 0° incidence)	Free-Field	Free-Field	
Frequency Response(± 3 dB)	20 to 16,000 Hz	20 to 16,000 Hz	
Phase Match(50 Hz to 100 Hz)	± 5 °	± 5 °	
Phase Match(100 Hz to 3 kHz)	± 3 °	± 3 °	
Phase Match(3 kHz to 5 kHz)	± 5 °	± 5 °	
Phase Match(5 kHz to 10 kHz)	± 10 °	± 10 °	
Sensitivity(@ 250 Hz)	10 mV/Pa	10 mV/Pa	
Sensitivity(± 3 dB)(@ 250 Hz)	-40 dB re 1 V/Pa	-40 dB re 1 V/Pa	
Inherent Noise(A Weighted)	<30 dB(A) re 20 µPa	<30 dB(A) re 20 µPa	
Dynamic Range(High)	150 dB re 20 µPa	150 dB re 20 µPa	[2][1]
Dynamic Range(3% Distortion Limit)	>143 dB re 20 µPa	>143 dB re 20 µPa	
TEDS Compliant	Yes	Yes	[3]
Standards Designation(IEC 60529)	IP55	IP55	[4]
Environmental			
Temperature Range(Operating)	+14 to +122 °F	-10 to +50 °C	
Temperature Effect on Output(-10 to +50 °C)	<0.7 dB	<0.7 dB	[1]
Influence of Axial Vibration((1 m/s ²))	60 dB re 20 µPa	60 dB re 20 µPa	[1]
Electrical			
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Bias Voltage	9 to 14 VDC	9 to 14 VDC	
Output Impedance	<52 Ohm	<52 Ohm	
Physical			
Housing Material	Stainless Steel	Stainless Steel	
Electrical Connector(Output)	BNC Jack	BNC Jack	
Size (Diameter x Length)(overall)	.52 in x 2.75 in	13.2 mm x 69.9 mm	
Weight	1.8 oz	51.1 gm	[1]

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] Typical.
 [2] Max without clipping.
 [3] TEDS Capable Digital Memory and Communication, compliant with IEEE 1451.4
 [4] Tested IAW IEC60529 with additional water ingress protection for the BNC connector
 [5] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:
 Model 100-15124-40 Replaceable water resistant pad (1)
 Model ACS-21 Calibration of Electret Microphone (1)

OPTIONAL ACCESSORIES:
 Model 079A46 5 Pack of replaceable water resistant pads



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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