

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

Entered: LK Engineer: MT Sales: MV Approved: JJB Spec Number:
 Date: 9/30/2016 Date: 9/30/2016 Date: 9/30/2016 Date: 9/30/2016 **59448**



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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