

Model Number 130A24		ICP® ELECTRET ARRAY MICROPHONE		Revision: C ECN #: 45945	
Performance		ENGLISH	SI	OPTIONAL VERSIONS	
Nominal Microphone Diameter		1/2"	1/2"	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.	
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 °	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.	
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	[3]	
TEDS Compliant		Yes	Yes	[4]	
Standards Designation(IEC 60529)		IP55	IP55		
Environmental					
Temperature Range(Operating)		+14 to +122 °F	-10 to +50 °C	[1]	
Temperature Effect on Output(-10 to +50 °C)		<0.7 dB	<0.7 dB	[1]	
Influence of Axial Vibration((1 m/s²))		60 dB re 20 µPa	60 dB re 20 µPa	[1]	
Electrical					
Excitation Voltage		18 to 30 VDC	18 to 30 VDC	SUPPLIED ACCESSORIES: Model 100-15124-40 Replaceable water resistant pad (1) Model ACS-21 Calibration of Electret Microphone (1)	
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	OPTIONAL ACCESSORIES: Model 079A46 5 Pack of replaceable water resistant pads	
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		
				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	
 [5]					
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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