

3273A1		PERFORMANCE SPECIFICATION										
REV L, ECN 15610, 02/25/20					Acceler	ometer, Triaxial	, IEPE					
						This family al	so includes:					
		• ULTRA L	OW FREQUE	NCY RESPO	NSE	Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC	
		• ULTRA L	OW NOISE L	EVEL		3273A2	100	50	0.00095	-60 to +165	0.5 - 1.5	
Y	(• WEIGHT	ONLY 2.7 GR	AMS		3273A4	50	100	0.002	-60 to +185	0.5 - 1.5	
		MEIOIII				0210/14	00	100	0.002	00101100	0.0 - 1.0	
		EN	GLISH		SI							
PHYSICAL		LIN	OLIOIT		01	Please refer to	o the performance sp	ecifications of the	products in this fan	nilv for detailed des	cription	
Weight		0.096	oz	2.7	grams	Supplied Acc					on paon	
Mounting		Adhesive		Adhesive			calibration certificate	(ISO 17025)				
Connector [1]	Туре	4-pin		4-pin		Notes:		,				
	Material	Ti-6 AL-4V		Ti-6 AL-4V		[1] Glass to me	etal Seal connector. N	Mates with Dytran	cable model 6811A	XX or 6824AXX		
Housing	Material	Ti-6 AL-4V]	Ti-6 AL-4V		(XX =length in						
	Isolation	Case ground		Case ground			at 100 Hz, 1 Grms pe					
Sensing Element	Material	Ceramic	1	Ceramic			% of specified full sc	ale (or any less fu	Ill-scale range), zero	o-based		
	Mode	Shear]	Shear	J	best fit straight						
							ly power to this devic	e without current	limiting, 20mA Max,	to do so will		
PERFORMANCE Sensitivity, ±10% [2]		10	٦ . <i></i>	1.00		,	egral IC amplifier					
Acceleration Range		10 +/-500	mV/g Gpeak	1.02 +/- 4905	mV/m/s^2 m/s^2 peak		est of constant produc . It is the customer's r		0	0 1		
Frequency Range, ±15%		.3-10,000	Hz		m/s^2 peak Hz		ne product specification					
Frequency Range, ± 5%		.5 - 3000	Hz	.5 - 3000	Hz		tasheets and / or spe			· ·		
Resonance Frequency		>24	kHz	>24	kHz		All operating parame				-	
Linearity [3]		1	%F.S.	1	%F.S.		ication by the custom		•		ouon	
Phase Response, ± 5°		2.3 to 3000	Hz	2.3 to 3000	Hz							
Transverse Sensitivity Max		5	%	5	%							
Noise floor, Max		0.003	Grms	0.029	m/s^2 rms			10	TYPICAL LOW FREG	QUENCY RESPONSE		
Spectral Noise	1Hz	629	μGrms/sqr(Hz)	6166	µm/s^2 rms/sqr(Hz)	L L	.697	<u>@</u> 0		┿┿┿╫┼╌╌╪╼┧┥┥		
	10Hz	110	μGrms/sqr(Hz)	1074	µm/s^2 rms/sqr(Hz)			» ق -10				
	100Hz	67	μGrms/sqr(Hz)	657	µm/s^2 rms/sqr(Hz)			jat				
	1000Hz	31	μGrms/sqr(Hz)	304	µm/s^2 rms/sqr(Hz)			≥				
	10000Hz	16	μGrms/sqr(Hz)	157	µm/s^2 rms/sqr(Hz)		.360 [9.14]	i≩i -30	∕/ ┼┼╢╢ ┼┼			
ELECTRICAL		0.4.00	л.	a (a a	1.		[0.14]	ه -40	/	++++++		
Supply Current Range [4] Compliance Voltage Range		2 to 20	mA VDC	2 to 20	mA VDC		.350	-50				
Output Impedance, Typ.		+18 to +30	Ω	+18 to +30	νDC Ω	N N N N N N N N N N N N N N N N N N N	[8.89]	0.1	1 Frequen	10 icy (Hz)	100	
Output Bias Voltage		11 to 13	VDC	100 11 to 13	VDC	ų						
Discharge Time Constant		0.5 to 1.5	sec	0.5 to 1.5	sec		f					
		0.0 10 1.0		0.0 10 1.0	1	40	TYPICAL PHASE RES	PONSE		CAL TEMPERATURE		
ENVIRONMENTAL						40			20			
Shock Max		5000	g pk	49050	m/s^2	Ĵ į į į 20		+++++	(%) 15 <u>c</u> 10			
Vibration Max		3000	g pk	29430	m/s^2	(degi			ciatio		+	
Operating Temperature		-60 to +225	°F	-51 to +107	°C	Shift (degr			0 0 4: -5			
Seal		Hermetic	1	Hermetic		20			-5 siti -10			
Magnetic Sensitivity at 100 Gauss		0.00007	g/Gauss	0.00069	m/s^2/Gauss	±			б ⁹ -15		+	
Base Strain Sensitivity		0.02	g/µε	0.1962	m/s^2/με	-40			-20 -60 2	64 126	188 250	
						0.3	3 Frequency (H	iz) 30	-00 Z	Temperature (F)	200	

Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3273A for more information.

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