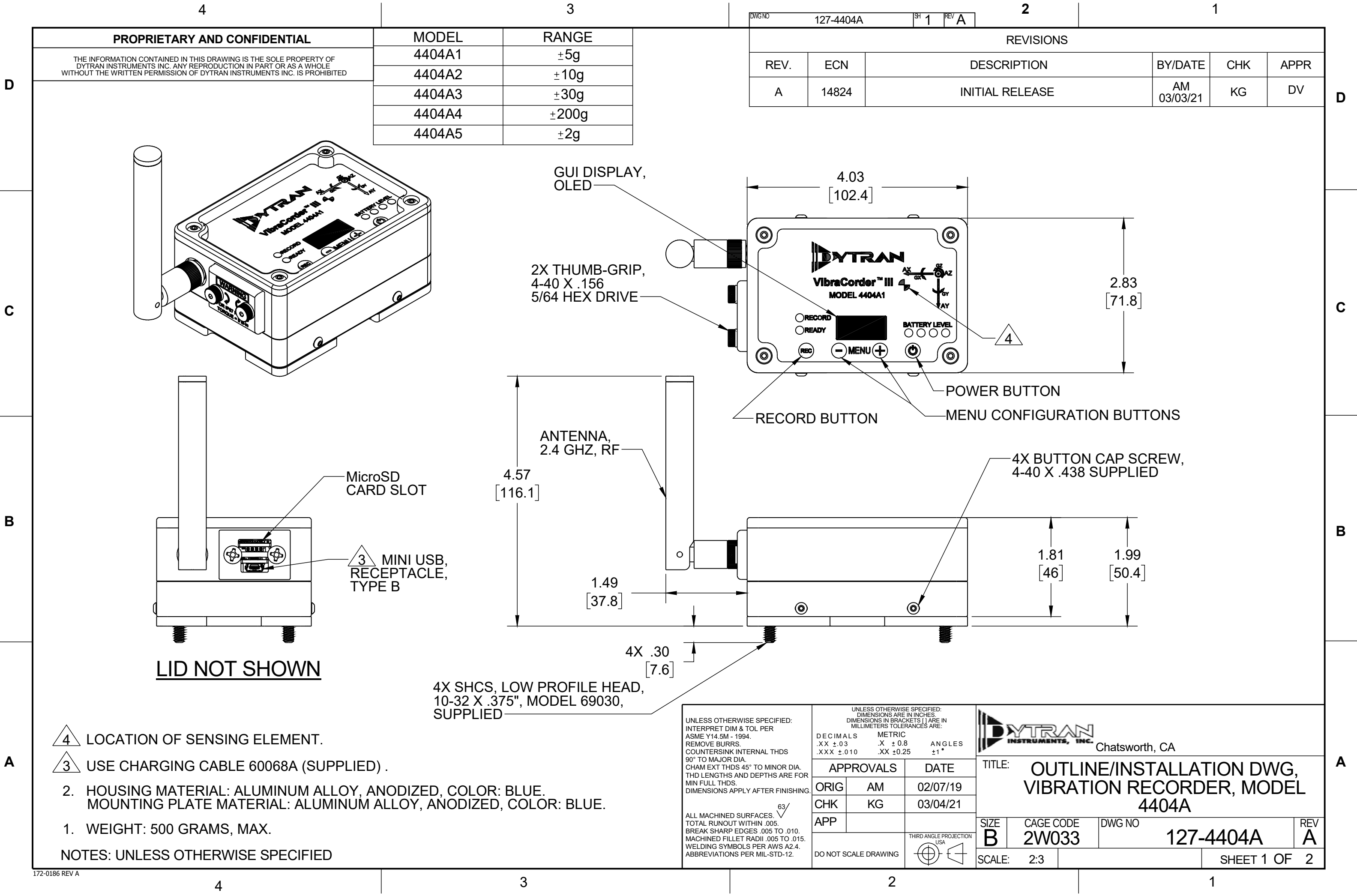




PROPRIETARY AND CONFIDENTIAL

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MODEL RANGE

4404A1	±5g
4404A2	±10g
4404A3	±30g
4404A4	±200g
4404A5	±2g

REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	14824	INITIAL RELEASE	AM 03/03/21	KG	DV

GUI DISPLAY,
OLED

2X THUMB-GRIP,
4-40 X .156
5/64 HEX DRIVE

4.03
[102.4]

2.83
[71.8]

POWER BUTTON

RECORD BUTTON

MENU CONFIGURATION BUTTONS

4X BUTTON CAP SCREW,
4-40 X .438 SUPPLIED

1.81
[46]

1.99
[50.4]

1.49
[37.8]

4X .30
[7.6]

4X SHCS, LOW PROFILE HEAD,
10-32 X .375", MODEL 69030,
SUPPLIED

ANTENNA,
2.4 GHZ, RF

MicroSD
CARD SLOT

3 MINI USB,
RECEPTACLE,
TYPE B

LID NOT SHOWN

UNLESS OTHERWISE SPECIFIED:
INTERPRET DIM & TOL PER
ASME Y14.5M - 1994.
REMOVE BURRS.
COUNTERSINK INTERNAL THDS
90° TO MAJOR DIA.
CHAM EXT THDS 45° TO MINOR DIA.
THD LENGTHS AND DEPTHS ARE FOR
MIN FULL THDS.
DIMENSIONS APPLY AFTER FINISHING.

ALL MACHINED SURFACES.
TOTAL RUNOUT WITHIN .005.
BREAK SHARP EDGES .005 TO .010.
MACHINED FILLET RADII .005 TO .015.
WELDING SYMBOLS PER AWS A2.4.
ABBREVIATIONS PER MIL-STD-12.

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES.
DIMENSIONS IN BRACKETS [] ARE IN
MILLIMETERS TOLERANCES ARE:

DECIMALS	METRIC	ANGLES
.XX ±.03	.X ±0.8	±1°
.XXX ±.010	.XX ±0.25	

APPROVALS		DATE
ORIG	AM	02/07/19
CHK	KG	03/04/21
APP		

DO NOT SCALE DRAWING



Chatsworth, CA

TITLE: **OUTLINE/INSTALLATION DWG,
VIBRATION RECORDER, MODEL
4404A**

SIZE	CAGE CODE	DWG NO	REV
B	2W033	127-4404A	A

SCALE: 2:3 SHEET 1 OF 2

4 LOCATION OF SENSING ELEMENT.

3 USE CHARGING CABLE 60068A (SUPPLIED).

2. HOUSING MATERIAL: ALUMINUM ALLOY, ANODIZED, COLOR: BLUE.
MOUNTING PLATE MATERIAL: ALUMINUM ALLOY, ANODIZED, COLOR: BLUE.

1. WEIGHT: 500 GRAMS, MAX.

NOTES: UNLESS OTHERWISE SPECIFIED

PROPRIETARY AND CONFIDENTIAL

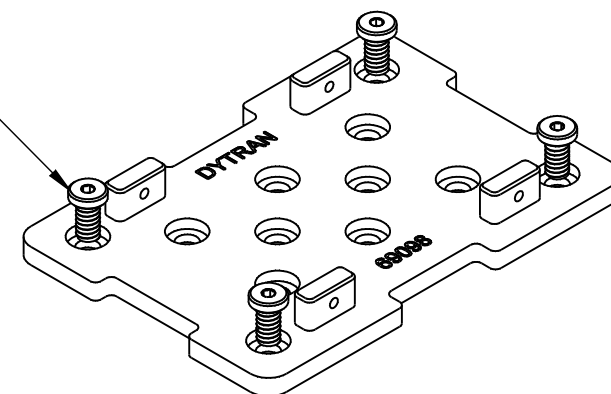
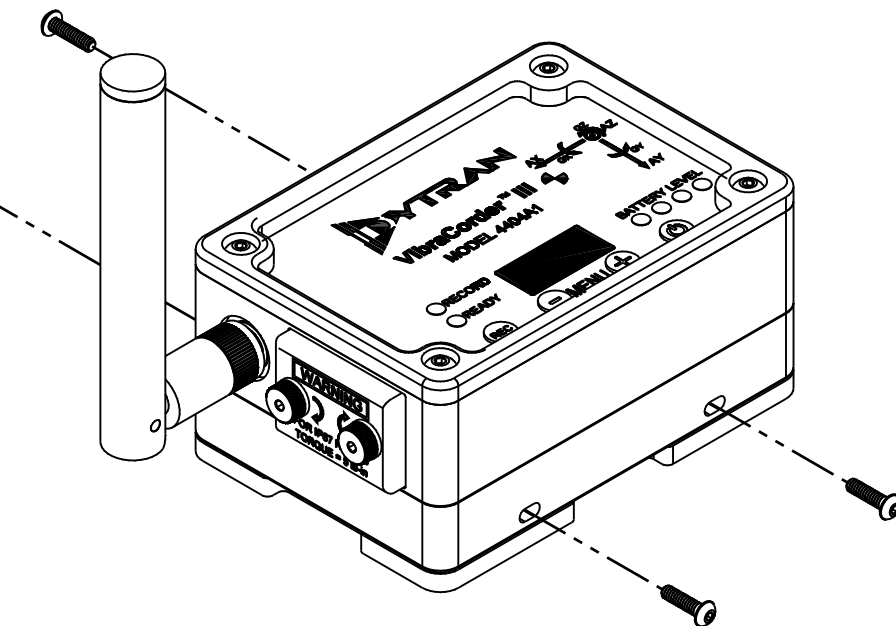
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4X SCREW, HEX DRIVE
BUTTON HEAD
4-40 X 7/16, MODEL 69099
SUPPLIED

12X ϕ .20 [5.1] THRU ALL
 $\square$ ϕ .35 [8.9] ∇ .10 [2.5]

MOUNTING BRACKET,
MODEL 69098
SUPPLIED

4X SHCS,
LOW PROFILE HEAD,
10-32 X .375, MODEL 69030,
SUPPLIED



4X .29
[7.4]

4X 4-40 UNC - 2B

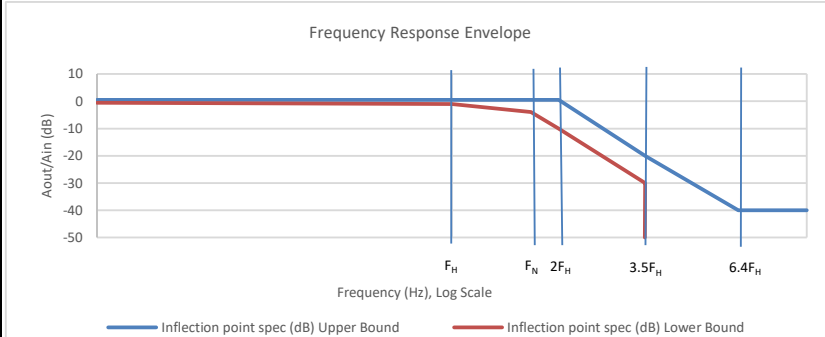
SCALE 1:1

.175
[4.4]



TITLE: **OUTLINE/INSTALLATION DWG,
VIBRATION RECORDER, MODEL
4404A**

SIZE	CAGE CODE	DWG NO	REV
B	2W033	127-4404A	A
SCALE: 2:3		PART NO: 4404A	SHEET 2 OF 2

MODEL NUMBER 4404A2		PERFORMANCE SPECIFICATIONS				DOC NO. PS4404A2																																	
		DATA RECORDER, MULTI-AXIS				REV A, ECN 14824, 03/03/21																																	
		- RECORDS MULTIPLE DATA CHANNELS FOR 15 HOURS - MICROSDHC CARD COMPATIBLE - REMOTE TRIGGERING UP TO 50FT - LINE OF SIGHT (AIR) - PROGRAMMABLE AXIS ORIENTATION				<table><tr><th>Model</th><th>Internal Accel. Range (g pk) / Gyro (°/sec)</th><th>Noise Accel. (g RMS) / Gyro (√Hz)</th></tr><tr><td>4404A1</td><td>±5 / ±50</td><td>.002 / 1.0</td></tr><tr><td>4404A3</td><td>±30 / ±250</td><td>.009 / 1.5</td></tr><tr><td>4404A4</td><td>±200 /±20000</td><td>.09 / 6.25</td></tr><tr><td>4404A5</td><td>±2 / ±50</td><td>.009 / 1.0</td></tr></table>		Model	Internal Accel. Range (g pk) / Gyro (°/sec)	Noise Accel. (g RMS) / Gyro (√Hz)	4404A1	±5 / ±50	.002 / 1.0	4404A3	±30 / ±250	.009 / 1.5	4404A4	±200 /±20000	.09 / 6.25	4404A5	±2 / ±50	.009 / 1.0																	
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PHYSICAL Weight, Max. Mounting Housing Material		<table><tr><th colspan="2">ENGLISH</th><th colspan="2">SI</th></tr><tr><td>17.5</td><td>oz</td><td>500</td><td>grams</td></tr><tr><td>4X 10-32 Screws</td><td></td><td>4X 10-32 Screws</td><td></td></tr><tr><td>Aluminum, Anodized</td><td></td><td>Aluminum, Anodized</td><td></td></tr></table>				ENGLISH		SI		17.5	oz	500	grams	4X 10-32 Screws		4X 10-32 Screws		Aluminum, Anodized		Aluminum, Anodized		Refer to the performance specifications of the products in this family for detailed description DATA CONVERSION<table><tr><td>Sampling rates (+/-5Hz)</td><td>120, 250, 256,500, 512, 720, 1024, 1200</td><td>Samples/sec</td></tr><tr><td>Resolution</td><td>24</td><td>bit</td></tr><tr><td>Synchronization</td><td>[1]</td><td></td></tr></table>		Sampling rates (+/-5Hz)	120, 250, 256,500, 512, 720, 1024, 1200	Samples/sec	Resolution	24	bit	Synchronization	[1]								
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INTERNAL SENSOR PERFORMANCE Acceleration Range (X, Y, Z Directions) Frequency Range (Acceleration), -3dB [4] Angular Rate Range (X, Y, Z Directions) Frequency Range (Gyro), -3dB Transverse Sensitivity, Max Noise, Accelerometers. Noise, Gyro Non-Linearity, Max		<table><tr><td>±10</td><td>g pk</td><td>± 98.1</td><td>m/s² pk</td></tr><tr><td>0 to 500</td><td>Hz</td><td>0 to 500</td><td>Hz</td></tr><tr><td>±150</td><td>°/sec</td><td>±150</td><td>°/sec</td></tr><tr><td>0-400</td><td>Hz</td><td>0-400</td><td>Hz</td></tr><tr><td>3</td><td>%</td><td>3</td><td>%</td></tr><tr><td>0.004</td><td>g RMS</td><td>0.04</td><td>m/s² RMS</td></tr><tr><td>1.0</td><td>°/sec</td><td>1.0</td><td>°/sec</td></tr><tr><td>2.5</td><td>%</td><td>2.5</td><td>%</td></tr></table>				±10	g pk	± 98.1	m/s ² pk	0 to 500	Hz	0 to 500	Hz	±150	°/sec	±150	°/sec	0-400	Hz	0-400	Hz	3	%	3	%	0.004	g RMS	0.04	m/s ² RMS	1.0	°/sec	1.0	°/sec	2.5	%	2.5	%	Supplied Accessories: 1) Accredited calibration certificate (ISO 17025) 2) Mounting plate, 69098 Qty. 1 3) Mounting Screws, 69030 10-32 x .375, Qty. 4 4) Charging system, 69110 Qty. 1 5) SD card adaptor and memory card case, 69123 Qty.1 Optional Accessories: 1) Torque wrench and hex bit, 69122 Qty.1	
±10	g pk	± 98.1	m/s ² pk																																				
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2.5	%	2.5	%																																				
ENVIRONMENTAL SPECIFICATIONS Operating temperature, Discharging Operating temperature, Charging Seal Max shock		<table><tr><td>-4 to +131</td><td>°F</td><td>-20 to +55</td><td>°C</td></tr><tr><td>32 to +104</td><td>°F</td><td>0 to +40</td><td>°C</td></tr><tr><td>IP67</td><td></td><td>IP67</td><td></td></tr><tr><td>500</td><td>g pk</td><td>4905</td><td>m/s² pk</td></tr></table>				-4 to +131	°F	-20 to +55	°C	32 to +104	°F	0 to +40	°C	IP67		IP67		500	g pk	4905	m/s ² pk	Notes: [1] Simultaneous sampling between all channels [2] Graph below: $F_H=F_s/12$, $F_N=F_s/7.2$, F_s= Sampling Frequency [3] In the interest of constant product improvement, we reserve the right to change specifications without notice. It is the customers responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating temperatures, including typical parameters, must be validated for each customer application by the customer's technical experts. [4] Reference frequency response plot below.																	
-4 to +131	°F	-20 to +55	°C																																				
32 to +104	°F	0 to +40	°C																																				
IP67		IP67																																					
500	g pk	4905	m/s ² pk																																				
POWER SPECIFICATIONS Battery, Capacity USB power Charge Time Charge current Charge indicator		<table><tr><td>LiPo, 2000mAh</td><td></td><td>LiPo, 2000mAh</td><td></td></tr><tr><td>5</td><td>VDC</td><td>5</td><td>VDC</td></tr><tr><td>8</td><td>hours</td><td>8</td><td>hours</td></tr><tr><td>250</td><td>mA</td><td>250</td><td>mA</td></tr><tr><td>Yes</td><td></td><td>Yes</td><td></td></tr></table>				LiPo, 2000mAh		LiPo, 2000mAh		5	VDC	5	VDC	8	hours	8	hours	250	mA	250	mA	Yes		Yes		 Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-4404A for more information.													
LiPo, 2000mAh		LiPo, 2000mAh																																					
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Yes		Yes																																					



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