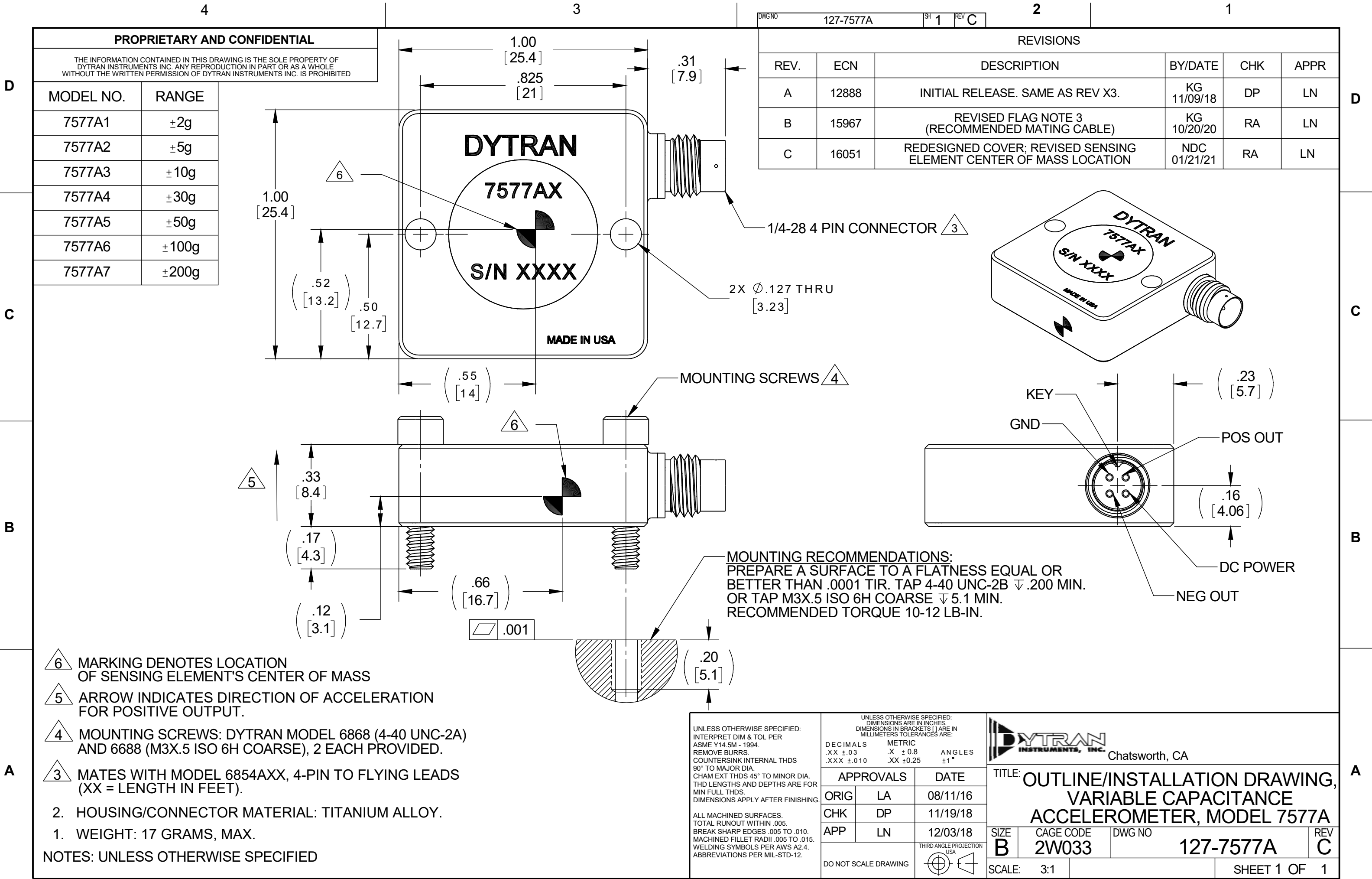
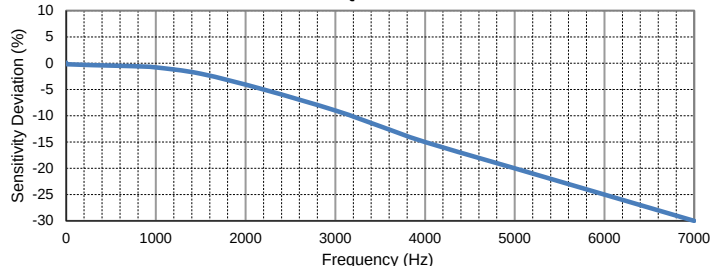
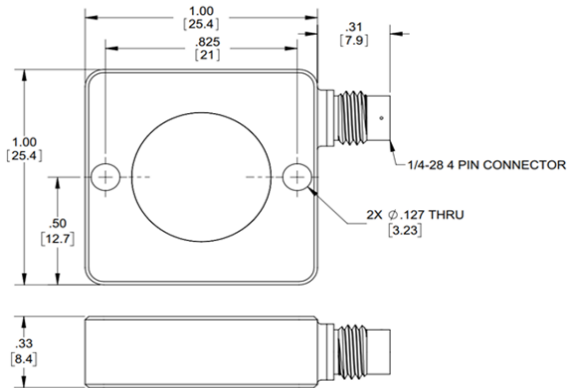




Model Number 7577A7		PERFORMANCE SPECIFICATION				DOC NO PS7577A7																																											
		VARIABLE CAPACITANCE ACCELEROMETER				REV C, ECN 16051, 01/25/21																																											
		• VARIABLE CAPACITANCE ACCELEROMETER • DIFFERENTIAL MODE • HERMETICALLY SEALED • DC RESPONSE • HIGH SHOCK SURVIVAL • EXTENDED FREQUENCY RESPONSE																																															
		ENGLISH		SI		This family also includes:																																											
		0.70 oz		20 grams		<table><tr><th>Model</th><th>Input Range (g pk)</th><th>Frequency Response (Hz) (±3dB)</th><th>Sensitivity Differential, ±10% (mV/g)</th><th>Max.Shock (g pk)</th><th>Noise Differential (µg RMS/√Hz)</th></tr><tr><td>7577A1</td><td>± 2</td><td>0-1150</td><td>2,000</td><td>6000</td><td>8</td></tr><tr><td>7577A2</td><td>± 5</td><td>0-1900</td><td>800</td><td>6000</td><td>17</td></tr><tr><td>7577A3</td><td>± 10</td><td>0-3200</td><td>400</td><td>6000</td><td>34</td></tr><tr><td>7577A4</td><td>± 30</td><td>0-4000</td><td>133</td><td>6000</td><td>102</td></tr><tr><td>7577A5</td><td>± 50</td><td>0-4500</td><td>80</td><td>6000</td><td>170</td></tr><tr><td>7577A6</td><td>± 100</td><td>0-5000</td><td>40</td><td>6000</td><td>339</td></tr></table>		Model	Input Range (g pk)	Frequency Response (Hz) (±3dB)	Sensitivity Differential, ±10% (mV/g)	Max.Shock (g pk)	Noise Differential (µg RMS/√Hz)	7577A1	± 2	0-1150	2,000	6000	8	7577A2	± 5	0-1900	800	6000	17	7577A3	± 10	0-3200	400	6000	34	7577A4	± 30	0-4000	133	6000	102	7577A5	± 50	0-4500	80	6000	170	7577A6	± 100	0-5000	40	6000	339
Model	Input Range (g pk)	Frequency Response (Hz) (±3dB)	Sensitivity Differential, ±10% (mV/g)	Max.Shock (g pk)	Noise Differential (µg RMS/√Hz)																																												
7577A1	± 2	0-1150	2,000	6000	8																																												
7577A2	± 5	0-1900	800	6000	17																																												
7577A3	± 10	0-3200	400	6000	34																																												
7577A4	± 30	0-4000	133	6000	102																																												
7577A5	± 50	0-4500	80	6000	170																																												
7577A6	± 100	0-5000	40	6000	339																																												
		Refer to the performance specifications of the products in this family for detailed description.																																															
		Supplied Accessories: 1) Accredited calibration certificate (ISO 17025) 2) Two mounting screws of each: Model 6688 (M3.5) and Model 6868 (4-40)																																															
		Notes: [1] All specifications are at room temperature unless otherwise specified. [2] Single ended sensitivity is half of values shown. [3] Over the rated temperature range. [4] In the interest of constant product improvement, we reserve the right to change specifications without notice. It is the customer's 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 parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.																																															
PHYSICAL																																																	
Weight, Max	Type	0.70 oz		20 grams																																													
Connector	Thru Holes	4-Pin, 1/4-28 UNF-2A		4-Pin, 1/4-28 UNF-2A																																													
Mounting		2 X Ø.127"		2 X Ø3.23mm																																													
Material		Titanium Alloy		Titanium Alloy																																													
PERFORMANCE																																																	
Input Range		±200 g pk		±1961.3 m/s² pk																																													
Frequency Response (±5%)		0 - 2200 Hz		0 - 2200 Hz																																													
Frequency Response (±3dB)		0 - 7000 Hz		0 - 7000 Hz																																													
Resonant Frequency		>11000 Hz		>11000 Hz																																													
Sensitivity Differential, ±10% [2]		20 mV/g		2.0 mV/m/s²																																													
Output Noise, Differential, Typ.		678 µg RMS/√(Hz)		6651 µm/s² RMS/√(Hz)																																													
Non-Linearity, Max.		0.5 % F.S.		0.5 % F.S.																																													
Transverse Sensitivity, Max.		3 %		3 %																																													
ENVIRONMENTAL																																																	
Maximum Mechanical Shock		6000 g pk		58840 m/s² pk																																													
Operating Temperature Range		-67 to +257 °F		-55 to +125 °C																																													
Scale Factor Temperature Coefficient [3]		-11 to +122 ppm/°F		-20 to +220 ppm/°C																																													
Seal		Hermetic		Hermetic																																													
ELECTRICAL																																																	
Output Common Mode Voltage		2.45 - 2.65 VDC		2.45 - 2.65 VDC																																													
Bias Calibration Error		0.667 g pk		0.068 m/s² pk																																													
Output Impedance, Nom.		1 Ω		1 Ω																																													
Operating Voltage		+6 to +14 VDC		+6 to +14 VDC																																													
Operating Current (AOP & AON open)		3 to 6 mA DC		3 to 6 mA DC																																													
Power Supply Rejection Ratio		>65 dB		>65 dB																																													
Ground Isolation		>30 MΩ		>30 MΩ																																													
Warm Up Time		<0.5 sec		<0.5 sec																																													
Overload Recovery		<200 µsec		<200 µsec																																													
																																																	
																																																	
		Units on the line drawing are in inches, dimensions in brackets [] are in millimeters. Refer to 127-7577A for more information.																																															
		21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.698.0362 www.dytran.com For permission to reprint this content, please contact info@dytran.com																																															