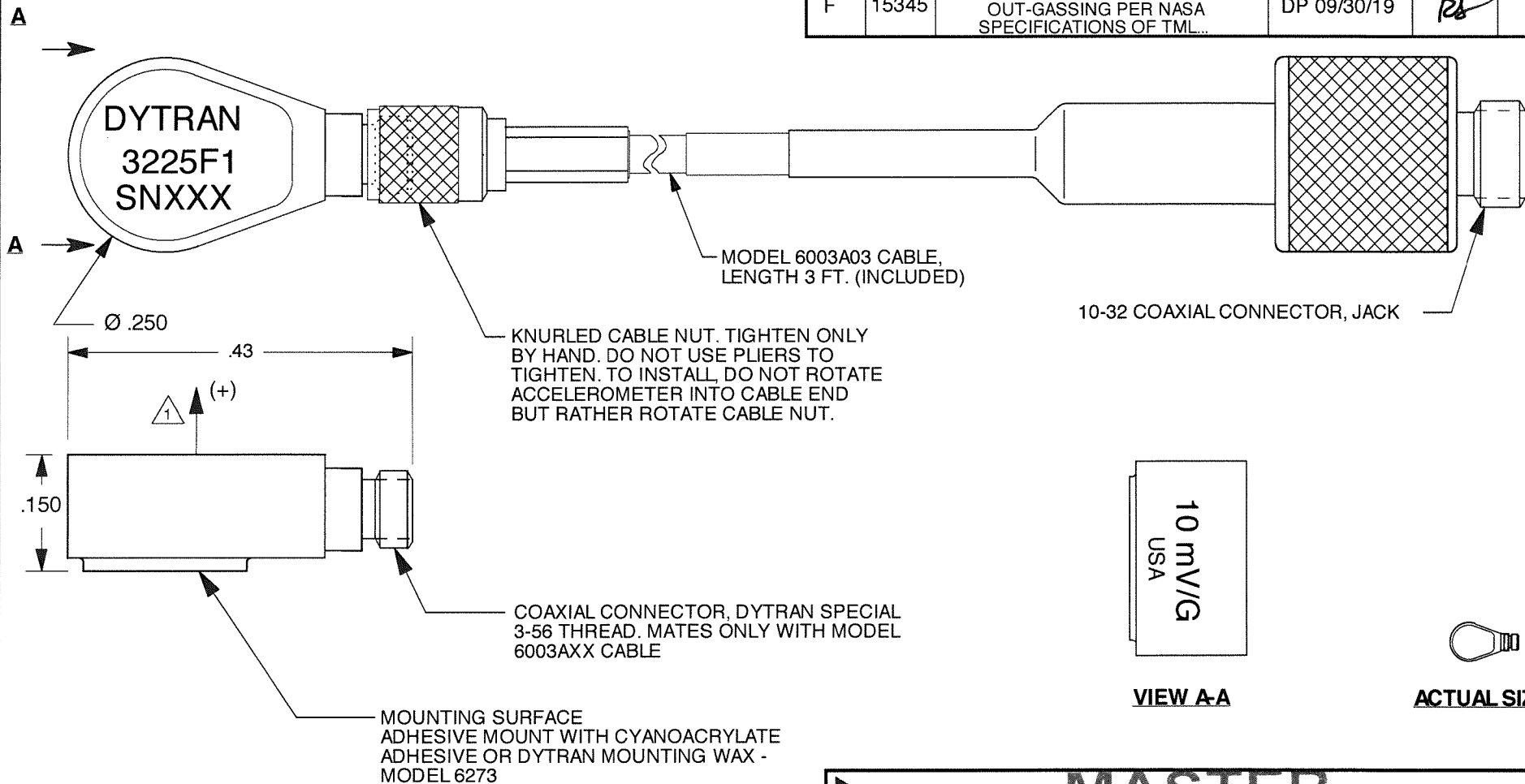


REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
D	9494	UPDATED VIEW OF CONNECTOR	AB 05/03/13	JS	DV
E	10071	RELOCATED "USA" MARK TO VIEW A-A	RA 06/18/13	JS	AS
F	15345	ADDED NOTE 4: CABLE IS LOW OUT-GASSING PER NASA SPECIFICATIONS OF TML...	DP 09/30/19	<i>RA</i>	<i>LD</i>



4. CABLE IS LOW OUT-GASSING PER NASA SPECIFICATIONS OF TML (TOTAL MASS LOSS) LESS THAN 1%; AND CVCM (COLLECTED VOLATILE CONDENSABLE MASS) LESS THAN 0.1%.
3. CASE AND CONNECTOR MATERIAL: TITANIUM.
2. WEIGHT LESS CABLE: 0.6 GRAMS.

1 ARROW INDICATES SENSE AND DIRECTION OF INPUT ACCELERATION FOR POSITIVE GOING OUTPUT SIGNAL

EXCEPT AS OTHERWISE NOTED

ALL DIMENSIONS IN INCHES
TOLERANCE: .XXX = ± .XX = ±

SURFACE FINISH
EXCEPT AS NOTED

BREAK EDGES TO DEBURR
RADIUS OR CHAMFER

THESE DIAS TO T.I.R.

FILLET - MAX RAD.

DYTRAN INSTRUMENTS, INC.		MASTER ONLY IF IN RED		CHATSWORTH, CA.	
SCALE	5X	REV	-	DATE	SEE REV BLK
DATE	10/2/01	PART NO.			
DRAWN	N.C.	CHECKED	R.A.	MAT'L	
APPROVED	N.C.	10/07/02	NEXT ASSEMBLY	USED ON	
TITLE				DWG NO.	
OUTLINE/INSTALLATION DRAWING, MODEL 3225F1				127-3225F1	
				SHEET 1 OF 1	

MODEL NUMBER 3225F1	PERFORMANCE SPECIFICATION	DOC NO. PS3225F1
ACCELEROMETER, IEPE		REV E, ECN 15345, 09/30/19



- **MINIATURE SIZE**
- **REMOVABLE CABLE WITH 10-32 CONNECTOR**
- **HERMETICALLY SEALED**
- **LOW OUT-GASSING**

PHYSICAL

	ENGLISH		SI	
Weight	0.03	oz	0.8	grams
Mounting Provision	[1]		[1]	
Connector, Radially Mounted [2]	3-56		3-56	
Cable Length	36	Inches	914	mm
Case Material	Titanium		Titanium	
Sensing Element	Quartz		Quartz	
	Material Mode		Shear	

PERFORMANCE

Sensitivity, ± 10% [3]	10	mV/g	1.0	mV/m/s ²
Range F.S For ± 5 Volts Out	± 500	g's	± 4905	m/s ²
Frequency Response, +/- 10%	1.6 to 10,000	Hz	1.6 to 10,000	Hz
Mounted Resonant Frequency	> 60	kHz	> 60	kHz
Amplitude Non-Linearity [4]	1	% F.S	1	% F.S
Transverse Sensitivity, Max	5	%	5	%
Noise Resolution [7]	0.007	grms	0.07	m/s ² rms
Strain Sensitivity @250/μe	0.0005	g/μe	0.005	m/s ² /μe

ENVIRONMENTAL

Maximum Vibration	400	Grms	3924	m/s ² rms
Maximum Shock	5000	Gpeak	49050	m/s ² peak
Temperature Range	-67 to +257	°F	-55 to +125	°C
Thermal Coefficient of Sensitivity	0.03	%/°F	0.054	%/°C
Environmental Seal	Hermetic		Hermetic	

ELECTRICAL

Supply Current [5]	2 to 20	mA	2 to 20	mA
Compliance Voltage	+18 to +30	Volts	+18 to +30	Volts
Output Impedance, TYP	100	Ω	100	Ω
Bias Voltage	+7 to +11	VDC	+7 to +11	VDC
Discharge Time Constant	0.3 to 1.0	Sec	0.3 to 1.0	Sec

This family also includes:

Model	Sensitivity (mV/g)	Range (g's)	Resolution (Grms)	Oper. Temp(°F)	TC

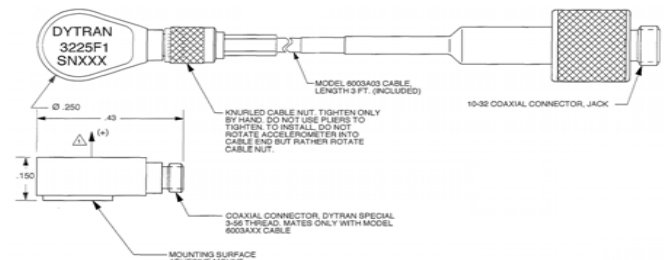
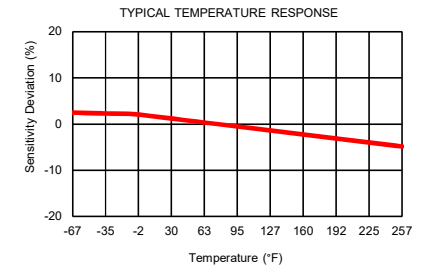
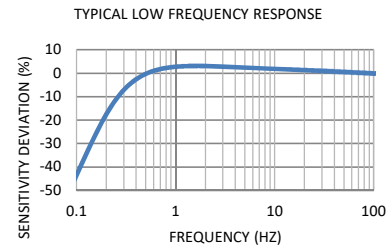
Refer to the performance specifications of the products in this family for detailed description.

Supplied Accessories

- 1) Model 6003A03 cable assembly. (3-foot 3-56 to 10-32)
- 2) Model 6591A installation and removal wrench
- 3) Model 6298 small petro mounting wax
- 4) Accredited calibration certificate (ISO 17025)

Notes:

- [1] Flat mounting surface for adhesive mount.
- [2] Mates with Dytran Cable 6003AXX (XX = Length in Feet)
- [3] Measured at 100 Hz, 1 grms per ISA RP37.2.
- [4] Percent of full scale or any lesser range, zero based best-fit straight line method.
- [5] Do not apply power to this device without current limiting, 20mA max, to do so will destroy the integral IC amplifier
- [6] In the interest of constant product improvement, we reserve the right to change specifications without notice.
- [7] Typical. Not to exceed .010 Grms [10 m/s²].
- [8] 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 overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3225F1 for more information.



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax: 818.700.7880 www.dytran.com For permission to reprint this content, please contact info@dytran.com