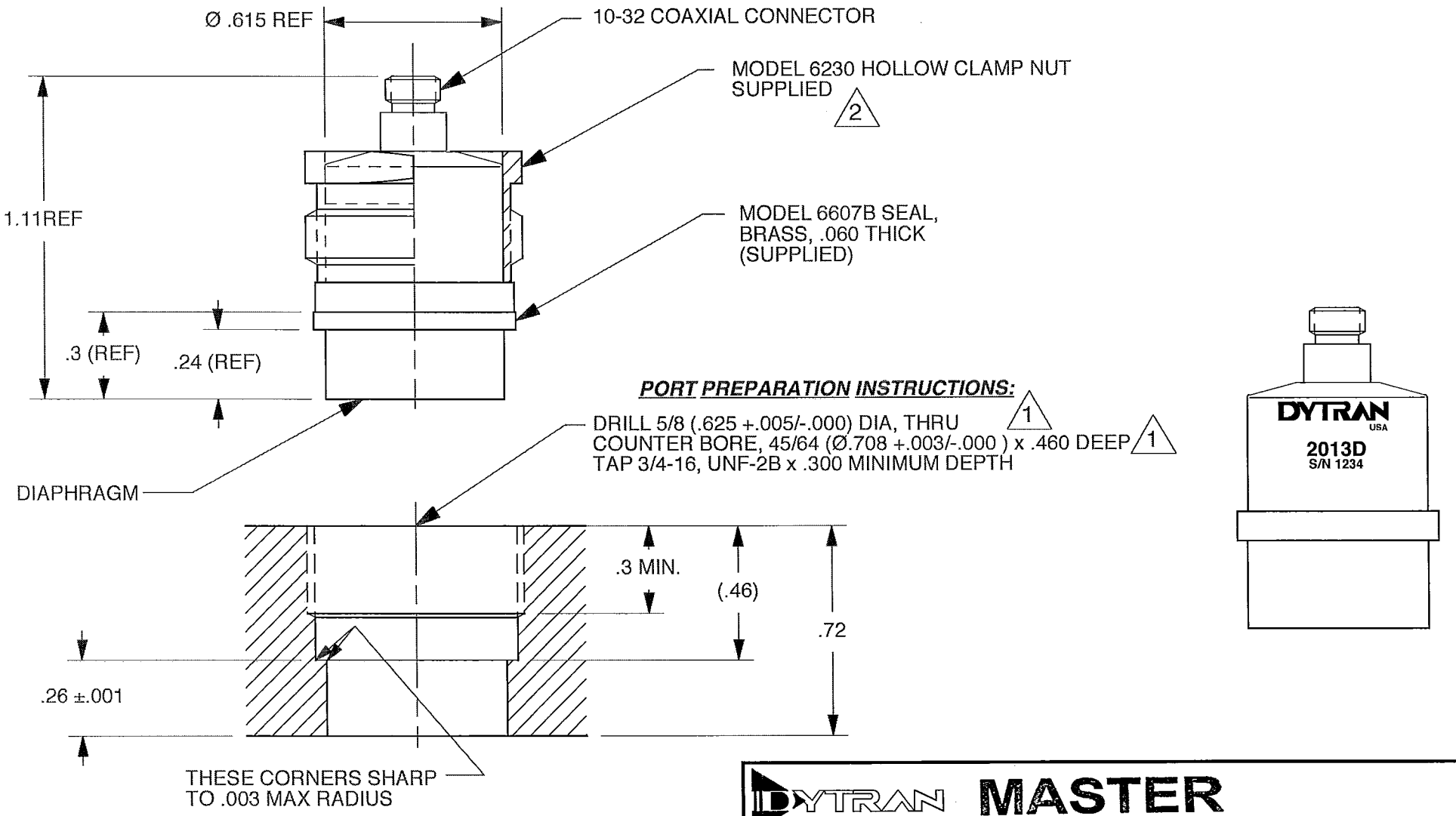
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	10447	REVISED NOTE 3, SEE ECN FOR DETAILS	RLA 10/07/13	AB	



4. BODY/DIAPHRAGM MATERIAL, TITANIUM ALLOY.
3. WEIGHT, INCLUDING 6607B SEAL AND 6230 HOLLOW CLAMP NUT: 24 GRAMS

2 TORQUE ON 6230 CLAMP NUT: 20 LB-IN.

1 THESE DIAMETERS MUST BE CONCENTRIC TO .003 TIR.

DYTRAN INSTRUMENTS, INC.

MASTER
ONLY IF IN RED

CHATSWORTH, CA.

SCALE 2X	REV -	DATE SEE REV BLK	ECN -		
DATE 6/29/07	PART NO. MODELS 2013D & 2013M10				
DRAWN N.C.	CHECKED	MAT'L			
APPROVED	NEXT ASSEMBLY		USED ON MODELS 2013D & 2013M10		

TITLE
OUTLINE/INSTALLATION DRAWING
MODELS 2013D & 2013M10

DWG NO.
127-2013D

SHEET 1 OF 1

Model Number 2013D	PERFORMANCE SPECIFICATION	DOC NO PS2013D
	HIGH INTENSITY IEPE MICROPHONE	REV A, ECN 7426, 05/11/11

- **HIGH INTENSITY**
- **EXCELLENT LINEARITY**
- **HERMETICALLY SEALED**

This family also includes:

Model	Sensitivity (mV/Psi)	Range F.S (psi)	Time Constant (sec)	Operating Temperature (°F)

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

Supplied Accessories:

1) Accredited calibration certificate (ISO 17025)
2) 6230 hollow clamp nut qty 1
3) 6607D delrin seals qty 2

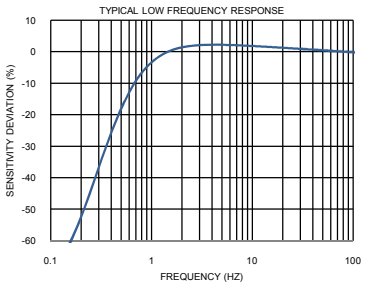
Notes:

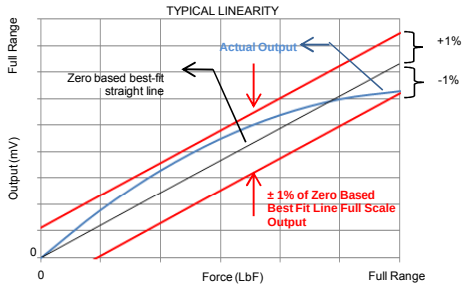
[1] 0db reference: 2.9 E-09 psi

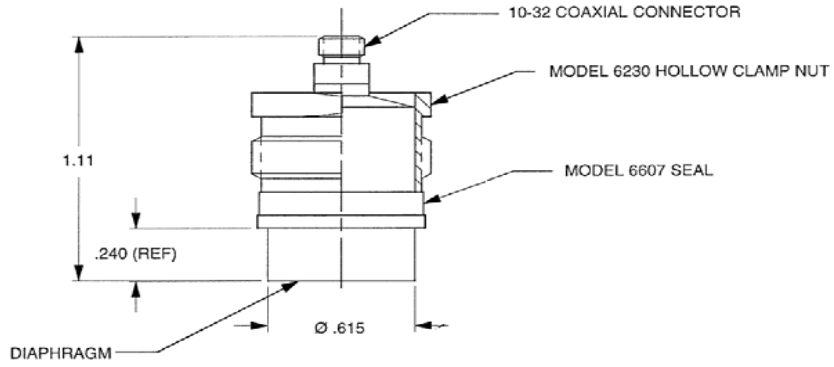
[2] Measure using zero-based straight line method, % of F.S. or any lesser range.

[3] Do not apply power to this system without current limting,20 mA MAX.To do so will destroy the IC charge amplifier.

	ENGLISH		SI	
PHYSICAL				
Weight, Max (includes Seal & Hollow Clamp Nut)	0.84	oz	24	grams
Connector, Coaxial, Axially Mounted	10-32, UNF-2A		10-32, UNF-2A	
Mounting Provision: Hollow Clamp Nut	3/4 - 16 THD		3/4 - 16 THD	
Material : Housing / Connector	Titanium		Titanium	
Material : Diaphragm	Titanium		Titanium	
PERFORMANCE				
Sensitivity, ±10% [1]	2	V/Psi	0.29	V/kpa
Range F.S For 5 Volts Out	2.5	Psi	17.23	kpa
Frequency Response, ± 5%	10 - 5000	Hz	10 - 5000	Hz
Absolute Maximum Pressure	20	Psi	138	kpa
Equivalent Electrical Noise (Resolution)	2.5E-05	Psi	1.72E-04	kpa
Linearity [2]	1	% F.S.,Max	1	% F.S.,Max
Mounted Resonant Frequency	> 50	kHz	> 50	kHz
Maximum Raise Time of Input Pulse or Step	5	µ Sec	5	µ Sec
Lower -3db Frequency	0.4	Hz	0.4	Hz
Acceleration Sensitivity, Axial Direction	0.002	Psi /g	0.0014	kpa/m/s^2
ENVIRONMENTAL				
Maximum Vibration	±300	g's,peak	±2943	m/s^2 peak
Maximum Shock	±500	g's,peak	±4905	m/s^2 peak
Temperature Range	-60 to +250	°F	-51 to +121	°C
Thermal Coefficient of Sensitivity	0.03	%°F	0.05	%°C
Seal	Hermetic		Hermetic	
Electrical				
Excitation (Compliance) Voltage Range [3]	+20 to +30	VDC	+20 to +30	VDC
Excitation Current Range	2 to 20	mA	2 to 20	mA
Output Impedence,Nom	150	Ω	150	Ω
Bias Voltage	11 to 13	VDC	11 to 13	VDC
Discharge Time Constant	0.4 to 0.8	Sec	0.4 to 0.8	Sec
Output Signal Polarity For Increasing Pressure	Positive Going		Positive Going	







Units on the line drawing are in inches. Refer to 127-2013D for more information.

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