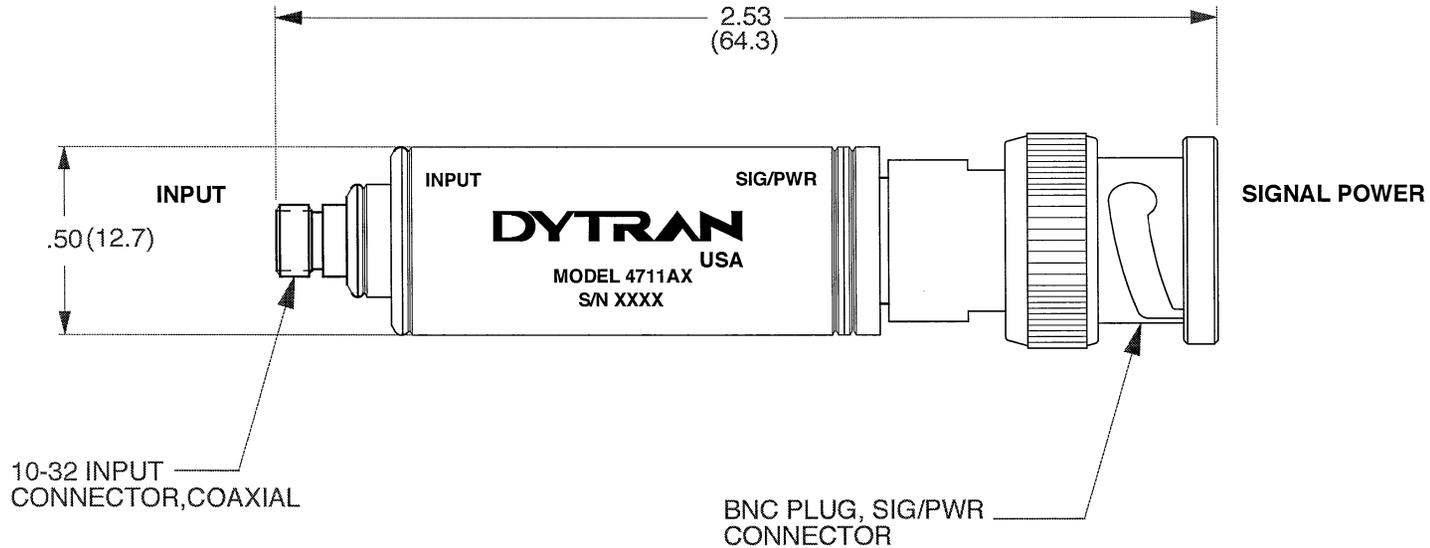


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REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	7641	INITIAL RELEASE	JS 07/12/11	<i>[Signature]</i>	<i>AWS</i>



USED ON	NEXT ASSY
APPLICATION	
THIRD ANGLE PROJECTION USA	

UNLESS OTHERWISE SPECIFIED:  
 INTERPRET DIM & TOL PER ASME  
 Y14.5M-1994. REMOVE BURRS  
 COUNTERSINKS INTERNAL THDS 90°  
 TO MAJOR DIA. CHAM EXT THDS 45°  
 TO MAJOR DIA. THD LENGTHS AND  
 DEPTHS ARE FOR THDS PER MIL-S-  
 7742.  
 DIMENSIONS APPLY AFTER  
 FINISHING.

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

CONTRACT NO.		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. DIMENSION IN BRACKETS [ ] ARE IN MILLIMETERS. TOLERANCES ARE:		
INCHES	METRIC	ANGLES
.XX ± .03	.X ± 0.8	± 1°
.XXX ± .010	.XX ± 0.25	
FINISH		
DO NOT SCALE DRAWING		

		<b>MASTER ONLY IF IN RED</b>		CHATSWORTH, CA.	
SCALE	DESIGN	DATE			
2X	NC	06/30/11			
DRAWN	DATE	PART NO.			
NC	-	-			
CHECKED	DATE	MAT'L			REV
<i>[Signature]</i>	7/18/11	-			A
APPROVED	DATE	NEXT ASSEMBLY		USED ON	
<i>AWS</i>	7/19/11	-			
TITLE			DWG NO.		
OUTLINE/INSTALLATION DRAWING, IN-LINE CHARGE AMPLIFIER MODEL 4711A			127-4711A		
			SHEET 1 OF 1		

<b>MODEL NUMBER</b> 4711A2	<b>PERFORMANCE SPECIFICATION</b>	<b>DOC NO</b> PS4711A2
	<b>IEPE Charge Amplifier, In-line</b>	REV B, ECN 10470 , 10/18/2013



- MINATURE
- ERGONOMICAL PACKAGE

**PHYSICAL**

		ENGLISH		SI	
Weight		1.155	oz	33	grams
Input Connector	Type	10-32 Jack		10-32 Jack	
	Material	304L		304L	
Output Connector	Type	BNC Plug		BNC Plug	
	Material	304L		304L	
Housing	Material	304L		304L	
	Isolation	Case Grounded		Case Grounded	

**PERFORMANCE**

Sensitivity, ±5%	1	mV/pC	1	mV/pC
Input Range	5000	pC	5000	pC
Low Frequency Range, -3db/-5%	.32/.96	Hz	.32/.96	Hz
High Frequency Response	[1]		[1]	
Linearity [2]	1	%F.S.	1	%F.S.
Noise floor	30	µVrms	30	µVrms

**ELECTRICAL**

Supply Current Range [3]	2 to 20	mA	2 to 20	mA
Compliance Voltage Range	+18 to +30	VDC	+18 to +30	VDC
Output Impedance, Typ.	100	Ω	100	Ω
Output Bias Voltage	10 to 12	VDC	10 to 12	VDC
Discharge Time Constant	0.5 to 1.0	sec	0.5 to 1.0	sec
Minimal Insulation Resistance of Sensor	2	MΩ	2	MΩ

**ENVIRONMENTAL**

Operating Temperature	-50 to +185	°F	-45 to +85	°C
Seal	Epoxy		Epoxy	

**This family also includes:**

Model	Sensitivity (mV/pC)	Range (pC)	Resolution (µVrms)	Oper. Temp(°F)	TC
4711A1	0.1	50000	300	-50 to +185	0.5 to 1.0
4711A3	10	500	3	-50 to +185	0.5 to 1.0

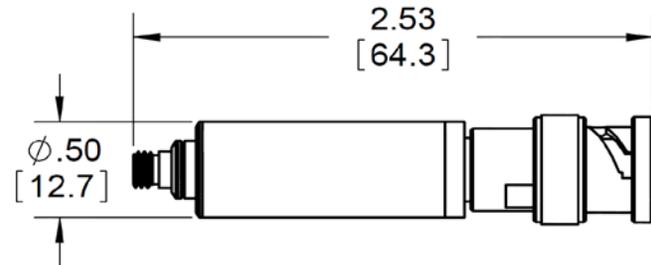
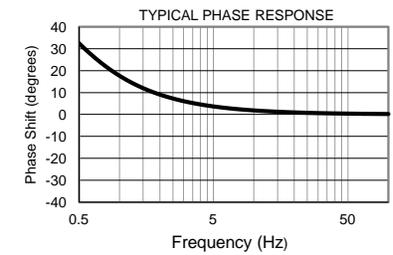
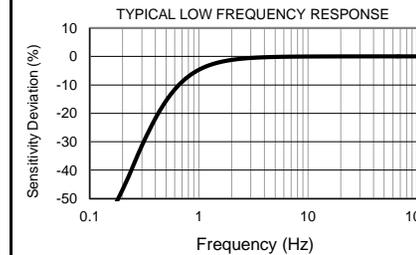
Refer to the performance specifications of the products in this family for detailed description.

**Supplied Accessories:**

- 1) Accredited calibration certificate (ISO 17025)

**Notes:**

- [1] Depends upon drive current and cable length.
- [2] Linearity is % of specified full scale (or any less full-scale range), zero-based best fit straight line method.
- [3] Do not apply power to this device without current limiting, 20mA Max, to do so will destroy the integral IC amplifier.
- [4] In the interest of constant product improvement, we reserve the right to change specifications without notice.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-4711A for more information.



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