DYTRAN PROPRIETARY AND CONFIDENTIAL BY/DATE CHK **APPR** THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DYTRAN INSTRUMENTS, INC. AND ANY REPRODUCTION IN PART OR AS A WHOLE OR ANY OTHER DISSEMINATION OF THIS INFORMATION WITHOUT THE **DESCRIPTION** REV **ECN** LUS Α 7641 **INITIAL RELEASE** JS 07/12/11 WRITTEN PERMISSION OF DYTRAN INSTRUMENTS, INC. IS PROHIBITED. 2.53 (64.3)**INPUT** SIG/PWR **INPUT SIGNAL POWER** .50(12.7)MODEL 4711AX S/N XXXX 10-32 INPUT CONNECTOR.COAXIAL BNC PLUG. SIG/PWR CONNECTOR MASTER ONLY IF IN RED INSTRUMENTS, INC. CHATSWORTH, CA. UNLESS OTHERWISE SPECIFIED: INTERPRET DIM & TOL PER ASME CONTRACT NO Y14.5M-1994.REMOVE BURRS 2X NC COUNTERSINKS INTERNAL THDS 90° 06/30/11 TO MAJOR DIA CHAM EXT THDS 45° TO MAJOR DIA.THD LENGTHS AND UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. DIMENSION IN BRACKETS [] ARE IN MILLIMETERS. TOLERANCES ARE: PART NO. DEPTHS ARE FOR THDS PER MIL-S-DATE / 18/1 REV DIMENSIONS APPLY AFTER FINISHING. USED ON NEXT ASSY **INCHES** METRIC **ANGLES** Α .XX ±.03  $.X \pm 0.8$ ± 1° USED ON APPLICATION **જા**!વીત .XXX ±.010  $.XX \pm 0.25$ THIRD ANGLE PROJECTION ALL MACHINED SURFACES V DWG NO. USA FINISH TOTAL RUNOUT WITHIN .005 BREAK SHARP EDGES .005 TO .010 MACHINE 127-4711A

DO NOT SCALE DRAWING

FILLET RADI .005 TO .015. WELDING SYMBOLS PER AWS A2.4

ABBREVIATIONS PER MIL-STD-12

**OUTLINE/INSTALLATION DRAWING, IN-LINE** 

**CHARGE AMPLIFIER MODEL 4711A** 

SHEET 1

OF 1

# MODEL NUMBER 4711A3 PERFORMANCE SPECIFICATION DOC NO PS4711A3 IEPE Charge Amplifier, In-line REV B, ECN 10470, 10/18/2013



## MINATURE

# • ERGONOMICAL PACKAGE

		ENGLISH		S	SI	
PHYSICAL				<u> </u>	-	
Weight		1.155	oz	33	grams	
Input Connector	Type	10-32 Jack		10-32 Jack	Ü	
	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%		10	mV/pC	10	mV/pC	
Input Range		500	рC	500	рC	
Low Frequency Range, -3d	db/-5%	.32/.96	Hz	.32/.96	Hz	
High Frequency Response	)	[1]		[1]		
Linearity [2]		1	%F.S.	1	%F.S.	
Noise floor		3	μVrms	3	μVrms	
ELECTRICAL						
Supply Current Range [3]		2 to 20	mA	2 to 20	mA	
Compliance Voltage Range	е	+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 Resistar	nce of Sensor	200	ΜΩ	200	МΩ	
ENVIRONMENTAL						
Operating Temperature		-50 to +185	°F	-45 to +85	°C	
Seal		Epoxy		Ероху		
1						

'his	family	/ also	includ	es:

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					
4711A2	1	5000	30	-50 to +185	0.5 to 1.0					

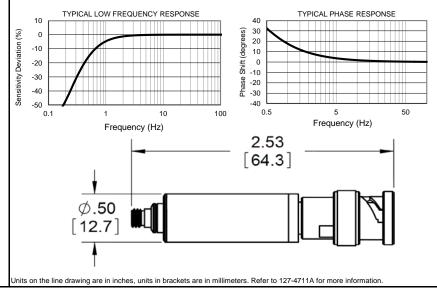
Refer to the performance specifications of the products in this family for detailed description.

### 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.





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