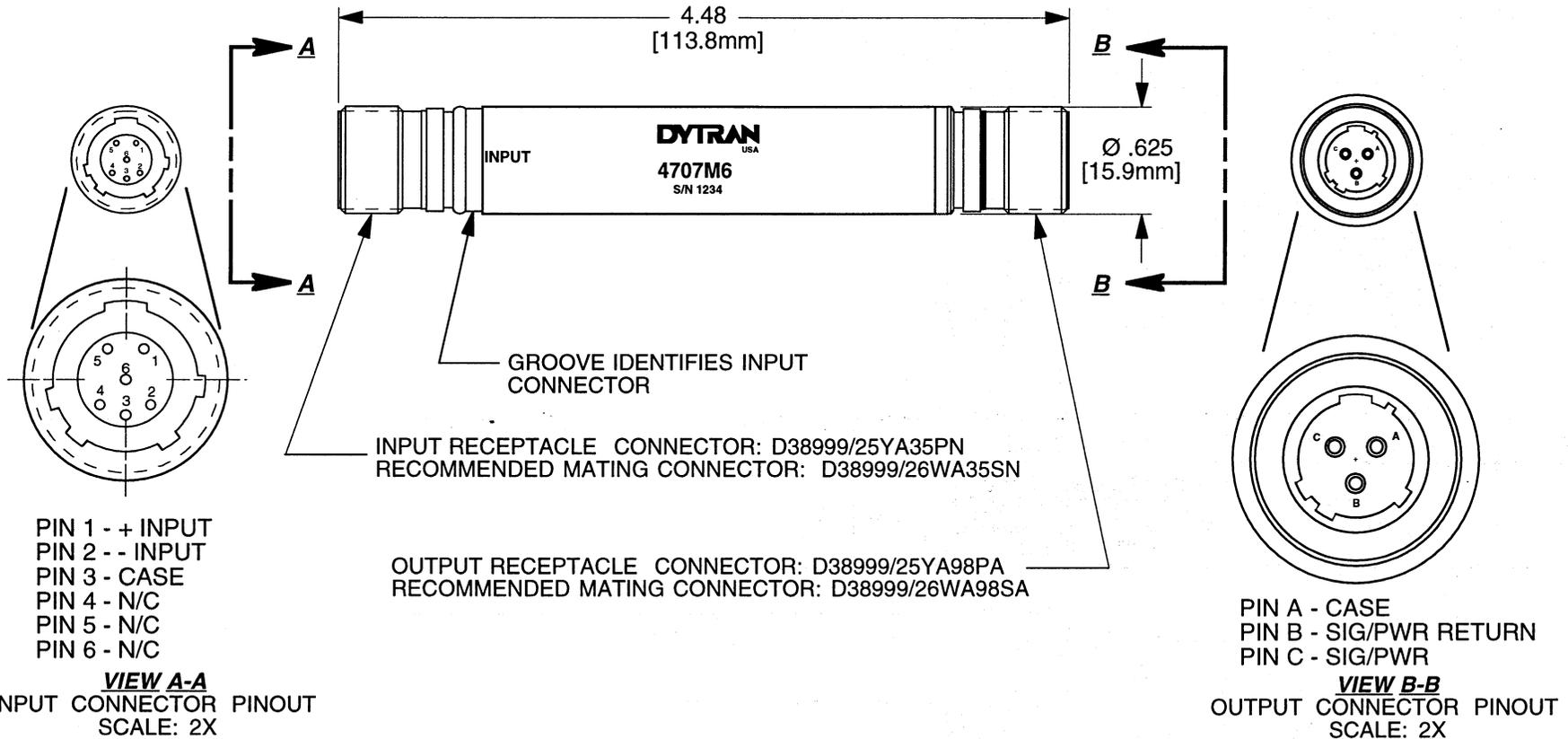


REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
C	5932	REVISED VIEW OF OUTPUT RECEPTACLE CONNECTOR D38999/25YA98PA KEYWAY ORIENTATION.	RA 04/20/09	<i>pd</i>	<i>JD</i>



ALL PART NUMBER LETTER SUFFIXES ARE TO BE INTERPRETED AS FOLLOWS:

M - MACHINED ONLY (UNPLATED)
P - PLATED/PAINTED
H - HEAT TREATED

G - MATERIAL HAS BEEN GRAINED
S - MATERIAL HAS BEEN SAWCUT
E - ENVIRONMENTAL TEST

EXCEPT AS OTHERWISE NOTED

ALL DIMENSIONS IN INCHES
TOLERANCE: .xxx = ± .005 .xx = ± .01

SURFACE FINISH 63 ✓
EXCEPT AS NOTED

BREAK EDGES TO DEBURR .003
RADIUS OR CHAMFER

△ THESE DIAS ⊙ TO .003 T.I.R.

FILLETS - .005 MAX RAD.

DYTRAN INSTRUMENTS, INC.		MASTER ONLY IF IN RED		CHATSWORTH, CA.	
SCALE	1X	REV	DATE	ECN	
			SEE REV BLOCK		
DATE	2/03/09	PART NO.	MODEL 4707M6		
DRAWN	N.C.	CHECKED	EP	MATL	
APPROVED	ANS 03/05/09	NEXT ASSEMBLY	USED ON	4707M6	
TITLE				DWG NO.	
OUTLINE/INSTALLATION DRAWING, MODEL 4707M6 DIFFERENTIAL INPUT CHARGE AMP.				127-4707M6	
				SHEET 1 OF 1	

Model Number 4707M6	PERFORMANCE SPECIFICATION	DOC NO PS4707M6
	Charge Amplifier, In-line, Differential	REV C, ECN 12643, 05/06/16



- DIFFERENTIAL INPUT
- LOW POWER
- ERGONOMICAL PACKAGE

	ENGLISH		SI	
PHYSICAL				
Weight	2.4	oz	68	grams
Input Connector [1]	Type: 6-pin		Type: 6-pin	
	Material: 304L		Material: 304L	
Output Connector [2]	Type: 3-pin		Type: 3-pin	
	Material: 304L		Material: 304L	
Housing	Material: 304L		Material: 304L	
	Isolation: Case Isolated		Isolation: Case Isolated	
PERFORMANCE				
Sensitivity, ±3% [3]	1	mV/pC	1	mV/pC
Input Range	5000	pC	5000	pC
Frequency Range, ±5%	5 to 10,000	Hz	5 to 10,000	Hz
Linearity [4]	1	%F.S.	1	%F.S.
Noise floor	40	µVrms	392.400	µVrms
Spectral Noise	1Hz: 60	µVrms/sqr(Hz)	588.6	µVrms/sqr(Hz)
	10Hz: 27	µVrms/sqr(Hz)	264.87	µVrms/sqr(Hz)
	100Hz: 14	µVrms/sqr(Hz)	137.34	µVrms/sqr(Hz)
	1000Hz: 12	µVrms/sqr(Hz)	117.72	µVrms/sqr(Hz)
	10000Hz: 10	µVrms/sqr(Hz)	98.1	µVrms/sqr(Hz)
ELECTRICAL				
Supply Current Range [5]	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, Nom	7 to 9	VDC	7 to 9	VDC
Discharge Time Constant, Nom	0.1 to 0.3	sec	0.1 to 0.3	sec
ENVIRONMENTAL				
Shock Max	2000	g pk	19620	m/s ²
Vibration Max	300	g pk	2943	m/s ²
Operating Temperature	-40 to +150	°F	-40 to +85	°C
Seal	Hermetic		Hermetic	

This family also includes:

Model	Sensitivity (mV/pC)	Range (pC)	Resolution (µVrms)	Oper. Temp(°F)	TC
4707M5	0.05	50000	4	-40 to +150	0.1 to 0.3
4707M2	30	166	75	-40 to +150	0.1 to 0.3
4707M3	5	1000	15	-40 to +150	0.1 to 0.3

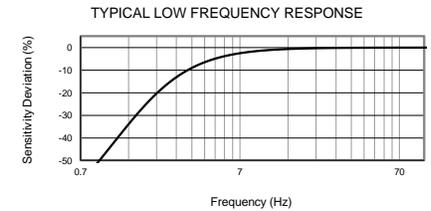
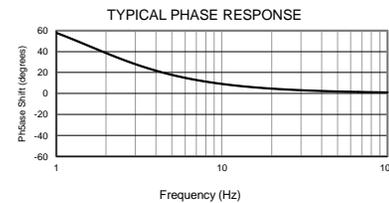
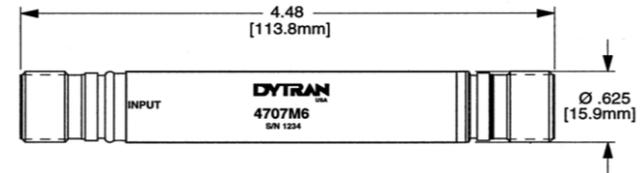
Please, refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

1) Accredited calibration certificate (ISO 17025)

Notes:

- [1] Glass to metal Seal connector, type D38999/25YA35PN Receptacle, mates with D38999/26WA35SN Plug
- [2] Glass to metal Seal connector, type D38999/25YA98PA Receptacle, mates with D38999/26WA98SA Plug
- [3] Measured at 100 Hz, 1000 pC differential input per ISA RP 37.2
- [4] Linearity is % of specified full scale (or any less full-scale 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



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-4707M6 for more information.



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