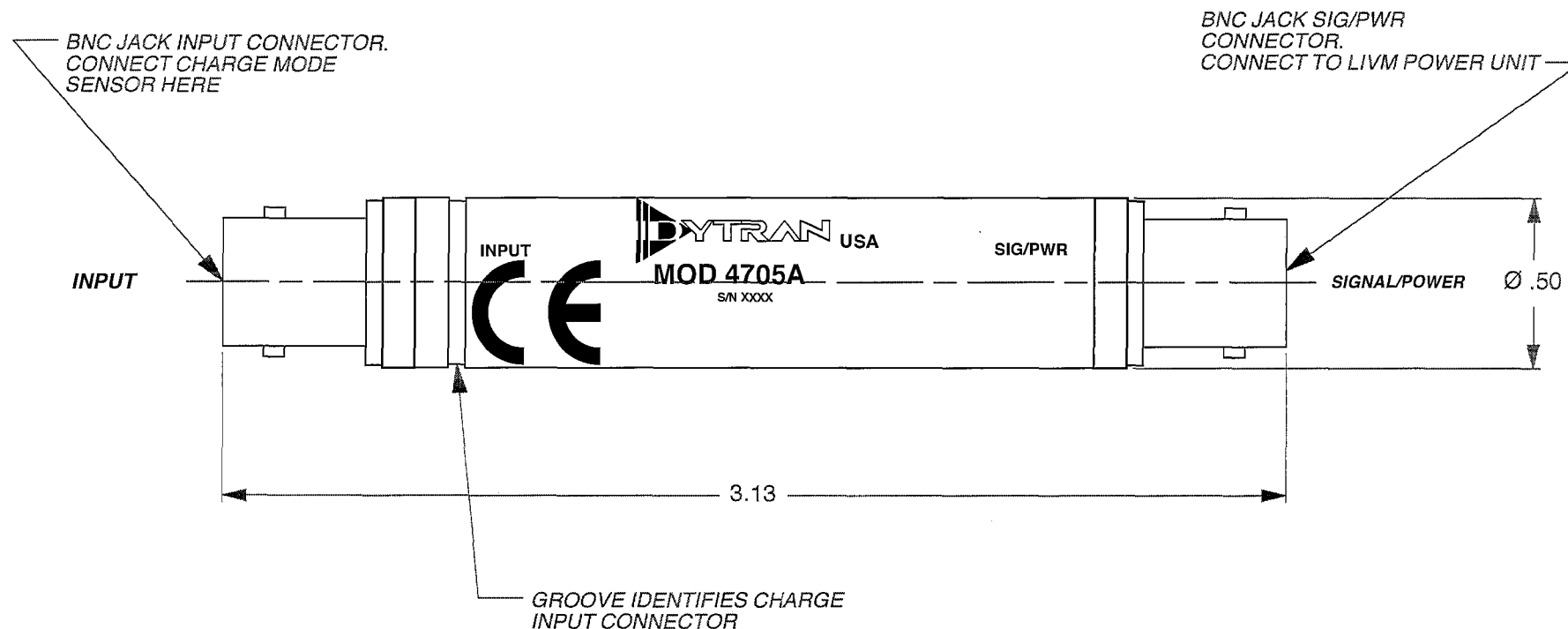


REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	6389	REMOVED "INSTRUMENTS, INC" FROM MARKING	RLA 11/11/09	JS	DV
B	7488	ADDED "CE" MARKING	RLA 04/18/11	JS	DV
C	10244	INCREASED SIZE OF "CE" MARKING	RLA 08/12/13	EM	SV



1. WEIGHT: 27 GRAMS

		MASTER ONLY IF IN RED				CHATSWORTH, CA.	
SCALE	2X	REV	-	DATE	SEE REV BLK	ECN	-
DATE	1/7/94	PART NO.					
DRAWN	N.C.	CHECKED	D.Z.	MAT'L			
APPROVED	N.C.	1/7/94		NEXT ASSEMBLY		USED ON 4705A	
TITLE						DWG NO.	
OUTLINE/INSTALLATION DRAWING, SERIES 4705A						127-4705A	
						SHEET 1 OF 1	



IN-LINE MINIATURE CHARGE AMPLIFIERS

MODEL	RANGE FOR +/- 5 V OUT (+/- pC)	SENSITIVITY (mV/pC, +/-5%)	MINIMAL SENSOR INSULATION RESISTANCE (ohms, Ω)	FEEDBACK CAPACITOR (pF, NOMINAL)
4705A1	100	50	1G	50
4705A2	500	10	200M	100
4705A3	5000	1	2M	1000
4705A4	50,000	0.1	1M	10,000

COMMON SPECIFICATIONS

SPECIFICATION	VALUE	UNITS
DISCHARGE TIME CONSTANT SEC	0.6	
LOW FREQUENCY RESPONSE, -3db/-5%	1.6/4.8	Hz
HIGH FREQUENCY RESPONSE, -3db/-5%	2000/660	Hz
OUTPUT BIAS VOLTAGE, +/- 1 V	11	VDC
OUTPUT IMPEDANCE, NOM.	100	OHMS
TEMPERATURE RANGE	-50 to +185	$^{\circ}$ F
THERMAL COEFFICIENT OF SENSITIVITY	.02	%/ $^{\circ}$ F
SUPPLY CURRENT RANGE	2 to 20	mA
SUPPLY (COMPLIANCE) VOLTAGE RANGE	+18 to +30	VDC
SIZE, DIA x LENGTH	0.50 x 3.15	INCHES
WEIGHT	33	GRAMS
INPUT and SIG/PWR CONNECTORS	BNC JACK	COAXIAL
ENVIRONMENTAL SEAL	EPOXY	