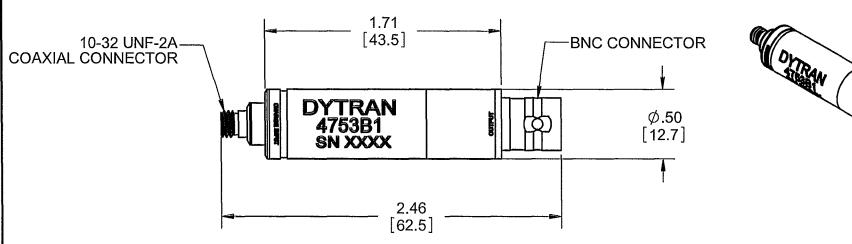
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REVISIONS					
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
Α	8486	INITIAL RELEASE	LN, 04/04/12	JS	ANS
В	10129	SEE ECN	AB 07/03/13	MH	m





- 4. MATERIAL, BNC CONNECTOR: NICKEL PLATED
- 3. MATERIAL, HOUSING/10-32 CONNECTOR: 300 SERIES STAINLESS STEEL
- 2. WEIGHT: 25 GRAMS, MAX.

1. SENSITIVITY: 1.0 mV/pC (±3%) INTERPRET DIM & TOL PER

INSTRUMENTS, INC. UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. ASME Y14.5M - 1994. DIMENSIONS IN BRACKETS [1 REMOVE BURRS. ARE IN MILLIMETERS COUNTERSINK INTERNAL THDS TITLE: TOLERANCES ARE: 90° TO MAJOR DIA. METRIC ANGLES CHAM EXT THD\$ 45° TO MINOR DIA. **OUTLINE/INSTALLATION** INCHES THD LENGTHS AND DEPTHS ARE FOR .XX ± .03 .X ± 0.8 ± 1° MIN FULL THDS. USED ON NEXT ASSY .XXX±.010 .XX ±0.25 DRAWING, MODEL 4753B1 THDS PER MIL-S-7742. **APPROVALS** DATE APPLICATION MATERIAL DIMENSIONS APPLY AFTER FINISHING. THIRD ANGLE PROJECTION ORIG LN 04/04/12 CAGE CODE DWG. NO. SIZE REV ALL MACHINED SURFACES. CHK FINISH JS 04/05/12 TOTAL RUNOUT WITHIN .005. 2W033 127-4753B1 BREAK SHARP EDGES .005 TO .010. APP 04/18/12 ANS MACHINED FILLET RADII .005 TO .015. **SOLIDWORKS** SHEET 1 OF 1 WELDING SYMBOLS PER AWS A2.4. 3/9/13 SCALE: NONE DO NOT SCALE DRAWING APP ABBREVIATIONS PER MIL-STD-12

CONTRACT NO.

Model Number 4753B1	F	PERFORMANCE SPECIFICATION			
		CHARGE AMPLIFIER, IN-LINE		REV D, ECN 11376, 03/25/15	



- FAST TURN ON TIME
- HIGH TEMPERATURE SENSORS
- MINIATURE PACKAGE
- TOLERATES LOW INSULATION RESISTANCE FROM SENSORS

		ENGLISH		S	
PHYSICAL					
Weight, Max		0.88	OZ	25	grams
Input Connector [1]	Type	10-32		10-32	
Output Connector	Type	BNC Jack		BNC Jack	
Housing	Material	300 Series S.S		300 Series S.S	
	Isolation	Case Grounded		Case Grounded	
PERFORMANCE					
Sensitivity, ±3% [2]		1.0	mV/pC	1.0	mV/pC
Input Range		5000	pC	5000	pC
Frequency Range, ±5%	4mA	5 to 40,000	Hz	5 to 40,000	Hz
Output voltage range		+/-5	Vp	+/-5	Vp
Non-Linearity [3]		+/-1%	%F.S.	+/-1%	%F.S.
Noise floor (5Hz to 10kHz)		400	μVrms	400	μVrms
Maximum Input Voltage		30	Vp	30	Vp
Minimum Source Resistance		10	kΩ	10	kΩ
Maximum Source Capacitano	20000	pF	20000	pF	
Turn on Time (within 10% of I	<1	minute	<1	minute	
Thermal coefficient of sensitive	vity, Max	0.01	%/°F	0.02	%/°C
ELECTRICAL					
Supply Current Range [4]		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 13	VDC	10 to 13	VDC
Discharge Time Constant		0.1 to 0.3	sec	0.1 to 0.3	sec
Polarity		Inverting		Inverting	
ENVIRONMENTAL					
Shock Max		2000	g pk	19620	m/s^2
Vibration Max		300	g pk	2943	m/s^2
Operating Temperature		-40 to +185	°F	-40 to +85	°C
Seal		Ероху		Ероху	

This family also includes:

Model	Sensitivity (mV/pC)	Range (pC)	Resolution (μVrms)	Oper. Temp(°F)	TC
4753B	10.0	500	40	-40 to +185	0.1 to 0.3
4753B2	5.0	1000	200	-40 to +185	0.1 to 0.3

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 10-32 coaxial receptacle.
- [2] Measured at 100 Hz, 1000 pF input.
- [3] Percent of full scale or any lesser range, zero based best-fit straight line method.
- [4] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the integral IC amplifier.
- [5] In the interest of constant product improvement, we reserve the right to change specifications without notice.

