

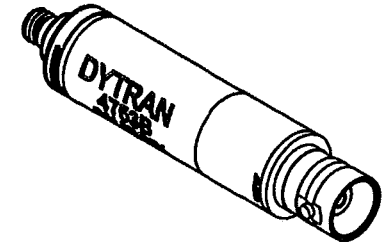
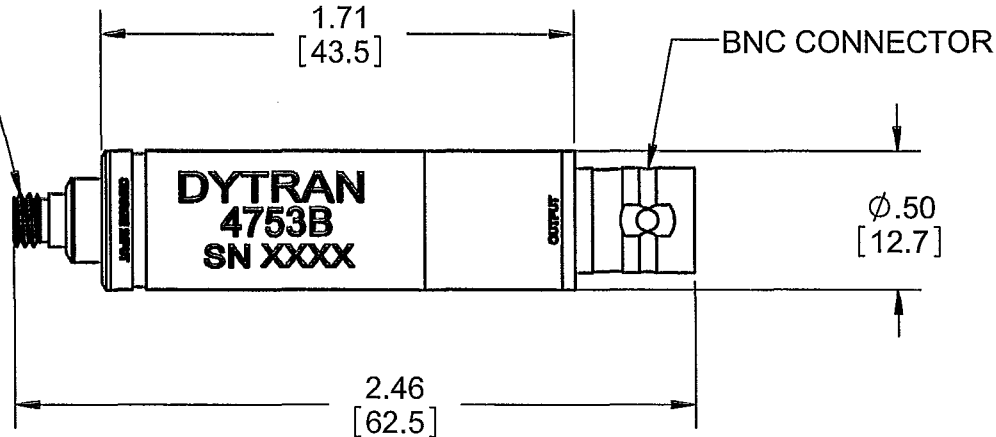
**PROPRIETARY AND CONFIDENTIAL**

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**REVISIONS**

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	8355	INITIAL RELEASE	LN, 03/02/12	RA	ANS
B	10129	SEE ECN	AB 07/03/13	MH	<i>[Signature]</i>

10-32 UNF-2A  
COAXIAL CONNECTOR



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

CONTRACT NO.



TITLE:  
**OUTLINE/INSTALLATION  
DRAWING, MODEL 4753B**

UNLESS OTHERWISE SPECIFIED: INTERPRET DIM & TOL PER ASME Y14.5M - 1994. REMOVE BURRS. COUNTERSINK INTERNAL THDS 90° TO MAJOR DIA. CHAM EXT THDS 45° TO MINOR DIA. THD LENGTHS AND DEPTHS ARE FOR MIN FULL THDS. THDS PER MIL-S-7742. DIMENSIONS APPLY AFTER FINISHING.	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS [ ] ARE IN MILLIMETERS TOLERANCES ARE: INCHES METRIC ANGLES .XX ±.03 .X ±0.8 ±1° .XXX±.010 .XX ±0.25
USED ON	NEXT ASSY
APPLICATION	
THIRD ANGLE PROJECTION USA	
ALL MACHINED SURFACES. <sup>63</sup> TOTAL RUNOUT WITHIN .005. BREAK SHARP EDGES .005 TO .010. MACHINED FILLET RADII .005 TO .015. WELDING SYMBOLS PER AWS A2.4. ABBREVIATIONS PER MIL-STD-12.	

MATERIAL	
FINISH	
DO NOT SCALE DRAWING	

APPROVALS		DATE
ORIG	LN	02/27/12
CHK	RA	03/05/12
APP	ANS	03/14/12
APP	<i>[Signature]</i>	7/9/13

SIZE	CAGE CODE	DWG. NO.	REV
<b>A</b>	<b>2W033</b>	<b>127-4753B</b>	<b>B</b>
SCALE: NONE		SOLIDWORKS	SHEET 1 OF 1

<b>Model Number</b> 4753B	<b>PERFORMANCE SPECIFICATION</b>	<b>DOC NO</b> PS4753B
	<b>CHARGE AMPLIFIER, IN-LINE</b>	REV J, ECN 16137, 03/26/21



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

**PHYSICAL**

Weight, Max  
Input Connector [1]  
Output Connector  
Housing

ENGLISH		SI	
Type	0.88 oz	25 grams	
Type	10-32	10-32	
Type	BNC Jack	BNC Jack	
Material	300 Series S.S.	300 Series S.S.	
Isolation	Case Grounded	Case Grounded	

**PERFORMANCE**

Sensitivity, ±3% [2]  
Input Range  
Frequency Range, ±5%  
Output voltage range  
Non-Linearity [3]  
Noise floor (5Hz to 10kHz)  
Maximum Input Voltage  
Minimum Source Resistance  
Maximum Source Capacitance  
Turn on Time (within 10% of bias)  
Thermal coefficient of sensitivity, Max

	10.0	mV/pC	10	mV/pC
	500	pC	500	pC
4mA	5 to 40,000	Hz	5 to 40,000	Hz
	+/-5	Vp	+/-5	Vp
	+/-1%	%F.S.	+/-1%	%F.S.
	10	µV RMS	10	µV RMS
	30	Vp	30	Vp
	10	kΩ	10	kΩ
	20000	pF	20000	pF
	<1	minute	<1	minute
	0.01	%/°F	0.02	%/°C

**ELECTRICAL**

Supply Current Range [4]  
Compliance Voltage Range  
Output Impedance, Typ.  
Output Bias Voltage  
Discharge Time Constant  
Polarity

	2 to 20	mA	2 to 20	mA
	+18 to +30	VDC	+18 to +30	VDC
	<100	Ω	<100	Ω
	10 to 13	VDC	10 to 13	VDC
	0.1 to 0.3	sec	0.1 to 0.3	sec
	Inverting		Inverting	

**ENVIRONMENTAL**

Maximum Shock  
Operating Temperature  
Seal  
Radiation Exposure Limit (Integrated Neutron Flux)  
Radiation Exposure Limit (Integrated Gamma Flux)

	2000	g pk	19620	m/s <sup>2</sup> pk
	-40 to +185	°F	-40 to +85	°C
	Epoxy		Epoxy	
	1.0E+10	N/cm <sup>2</sup>	1.0E+10	N/cm <sup>2</sup>
	1.0E+06	rad	1.0E+06	rad

**This family also includes:**

Model	Sensitivity (mV/pC)	Range (pC)	Resolution (µV RMS)	Oper. Temp(°F)	TC
4753B1	1.0	5000	10	-40 to +185	0.1 to 0.3
4753B2	5.0	1000	10	-40 to +185	0.1 to 0.3

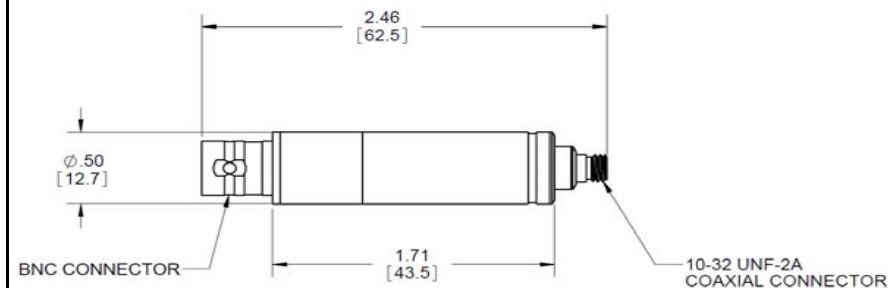
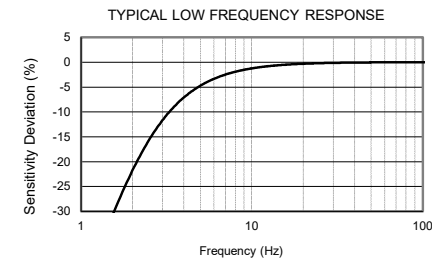
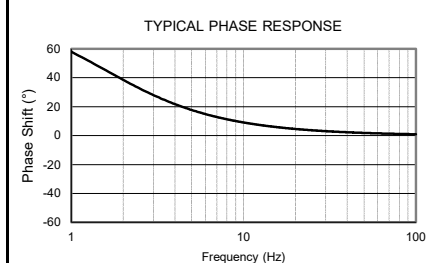
Refer to the performance specifications of the products in this family for detailed description

**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. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.



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



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