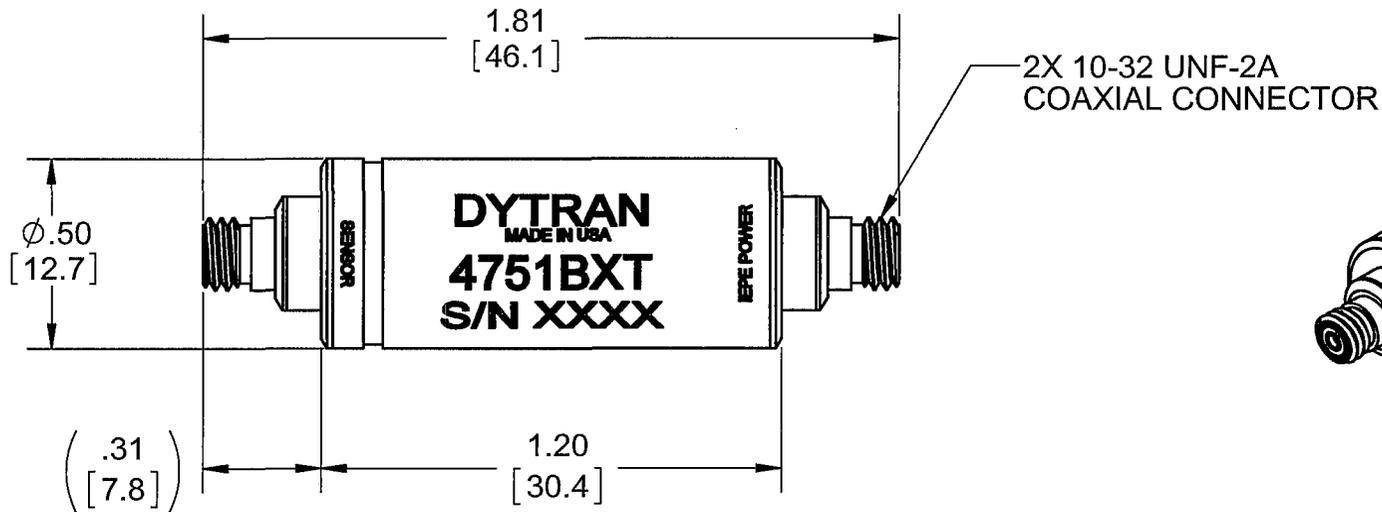


PROPRIETARY AND CONFIDENTIAL

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REVISIONS				
REV	ECN	DESCRIPTION	BY/DATE	CHK APPR
A	9996	INITIAL RELEASE	LN 06/26/13	AB DV

MODEL	SENSITIVITY
4751B1T	50 mV/pC
4751B2T	10 mV/pC
4751B3T	1.0 mV/pC
4751B4T	0.1 mV/pC



2. MATERIAL, HOUSING/CONNECTOR: 300 SERIES STAINLESS STEEL

1. WEIGHT, MAX : 25 GRAMS

NOTES: UNLESS OTHERWISE SPECIFIED

USED ON	NEXT ASSY
APPLICATION	
THIRD ANGLE PROJECTION USA	

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.

ALL MACHINED SURFACES. 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.

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

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS		DATE
ORIG	LN	06/26/13
CHK	AB	06/26/13
APP	DV	7/9/13
APP		

DYTRAN INSTRUMENTS, INC. **MASTER ONLY IF IN RED**
 Chatsworth, CA

TITLE: **OUTLINE/INSTALLATION DWG, IN-LINE CHARGE AMP, MODEL 4751BT**

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-4751BT	A
SCALE: NONE		SOLIDWORKS	SHEET 1 OF 1

Model Number 4751B1T	PERFORMANCE SPECIFICATION	DOC NO PS4751B1T
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CHARGE AMPLIFIER, IN-LINE		REV A, ECN 13558, 07/13/17
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- **FAST TURN ON TIME**
- **MINIATURE PACKAGE**
- **TEDS FEATURE**

PHYSICAL

		ENGLISH		SI	
Weight, Max	Type	0.88	oz	25	grams
Connector [1]		10-32		10-32	
Housing	Material	300 Series S.S.		300 Series S.S.	
	Isolation	Case Grounded		Case Grounded	

PERFORMANCE

Sensitivity, +10%/-0% [3]	50	mV/pC	50	mV/pC
Input Range	100	pC	100	pC
Frequency Range, ±5%	4.8 to [2]	Hz	4.8 to [2]	Hz
, -3dB	1.6 to [2]	Hz	1.6 to [2]	Hz
Feedback Capacitor	50	pF	50	pF
Thermal Coefficient of Sensitivity, Max.	0.02	%/°F	0.03	%/°C
Minimum Source Resistance	1	GΩ	1	GΩ

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	+8 to +12	VDC	+8 to +12	VDC
Discharge Time Constant, Nom	0.1	sec	0.1	sec
TEDS feature	IEEE 1451.4		IEEE 1451.4	

ENVIRONMENTAL

Shock Max.	2000	g pk	19620	m/s ²
Vibration Max.	300	g pk	2943	m/s ²
Operating Temperature	-50 to +188	°F	-46 to +87	°C
TEDS Operating Temperature	-40 to +185	°F	-40 to +85	°C
Seal	Hermetic		Hermetic	

This family also includes:

Model	Sensitivity (mV/pC)	Range (pC)	Min. Source Resistance(Ω)	Oper. Temp(°F)	TC
4751B2T	10	500	200M	-50 to +188	0.1
4751B3T	1.0	5,000	2M	-50 to +188	0.1
4751B4T	0.1	50,000	1M	-50 to +188	0.1

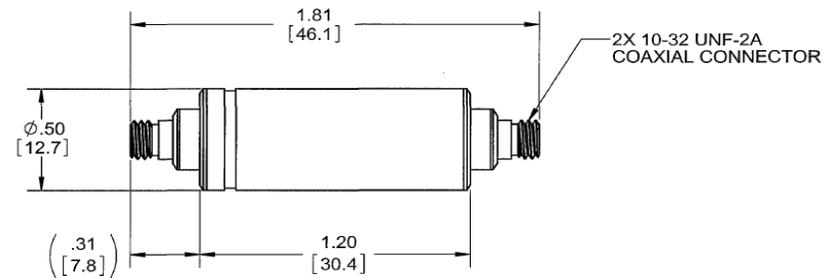
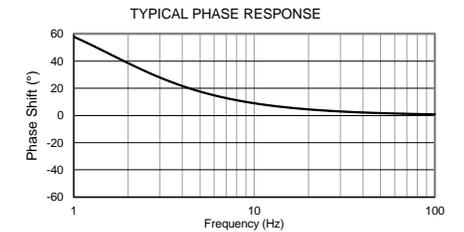
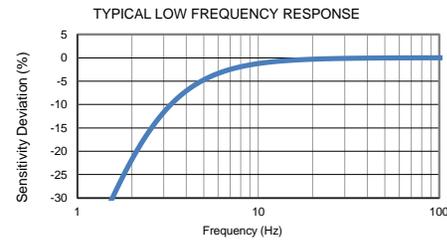
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)

Notes:

- [1] Both input and sig/pwr, Glass to metal seal connector, type 10-32 coaxial receptacle.
- [2] High frequency response depends upon drive current and cable length.
- [3] Measured at 100 Hz, 1000 pF input.
- [4] Do not apply power to this device without current limiting, 20 mA 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 127-4751BT for more information.



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