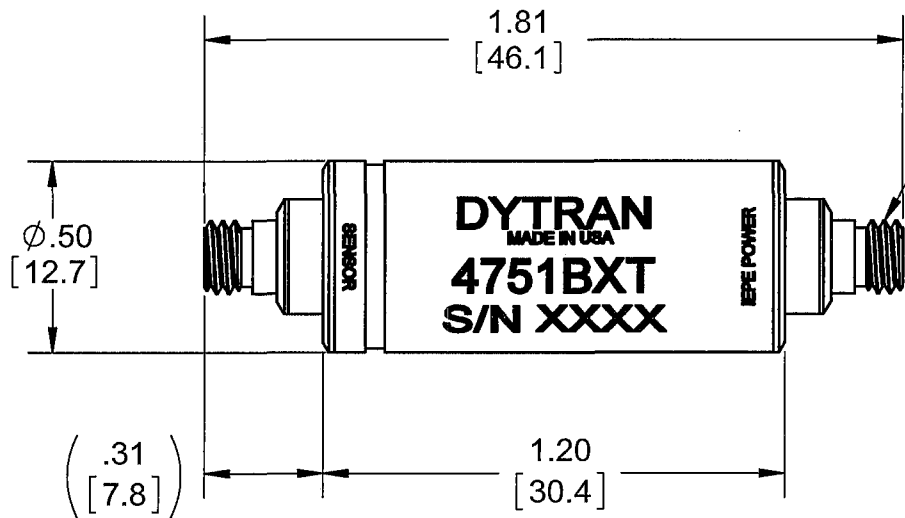


**PROPRIETARY AND CONFIDENTIAL**

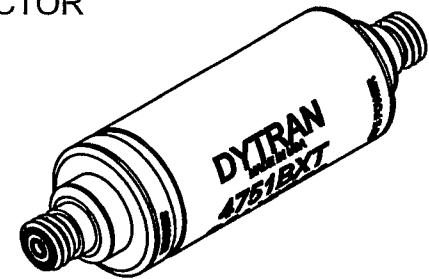
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REVISIONS				
REV	ECN	DESCRIPTION	BY/DATE	CHK APPR
A	9996	INITIAL RELEASE	LN 06/26/13	AB DV

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



2X 10-32 UNF-2A  
COAXIAL CONNECTOR



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
<b>A</b>	<b>2W033</b>	<b>127-4751BT</b>	<b>A</b>
SCALE: NONE		SOLIDWORKS	SHEET 1 OF 1

**SPECIFICATIONS SERIES 4751BT**

**IN-LINE MINIATURE CHARGE AMPLIFIERS  
WITH TRANSDUCER ELECTRONICS DATA SHEET (TEDS) FUNCTION**

<b>MODEL</b>	<b>RANGE FOR +/- 5 V OUT (+/- pC)</b>	<b>SENSITIVITY (mV/pC, +10%/-0)</b>	<b>MINIMAL SENSOR INSULATION RESISTANCE (ohms, Ω)</b>	<b>FEEDBACK CAPACITOR (pF, NOMINAL)</b>
<b>4751B1T</b>	<b>100</b>	<b>50</b>	<b>1G</b>	<b>50</b>
<b>4751B2T</b>	<b>500</b>	<b>10</b>	<b>200M</b>	<b>100</b>
<b>4751B3T</b>	<b>5000</b>	<b>1</b>	<b>2M</b>	<b>1000</b>
<b>4751B4T</b>	<b>50,000</b>	<b>0.1</b>	<b>1M</b>	<b>10,000</b>

**COMMON SPECIFICATIONS**

<b>SPECIFICATION</b>	<b>VALUE</b>	<b>UNITS</b>
DISCHARGE TIME CONSTANT, NOM.	0.1	SECONDS
LOW FREQUENCY RESPONSE, -3db	1.6	Hz
LOW FREQUENCY RESPONSE -5%	4.8	Hz
OUTPUT BIAS VOLTAGE	8.0 to 12.0	VDC
OUTPUT IMPEDANCE, NOM.	100	OHMS
TEMPERATURE RANGE	-50 to +188	°F
THERMAL COEFFICIENT OF SENSITIVITY	.02	%/°F
SUPPLY CURRENT RANGE	2 to 20	mA
SUPPLY (COMPLIANCE) VOLTAGE RANGE	+18 to +30	VDC
SIZE, DIA x LENGTH	0.50 x 1.75	INCHES
WEIGHT	25	GRAMS
INPUT and SIG/PWR CONNECTORS	10-32	COAXIAL
TEDS COMPATIBLE		

**HIGH FREQUENCY RESPONSE** [1] (Depends upon various parameters such as cable length and output signal scope) Test results for Model 4751B3T (1 mV/pC sensitivity) are shown here:

<b>FREQUENCY RESPONSE, ± 5%</b> (kHz)			
<b>DRIVE CURRENT</b> (mA)	<b>CABLE LENGTH</b> (Ft.)	<b>OUTPUT AMPLITUDE</b>	
		<b>(± 1 VOLT)</b>	<b>(± 5 VOLTS)</b>
2	10	200	45
	100	80	16
	1000	8	2
5	10	340	93
	100	126	38
	1000	22	5
10	10	660	163
	100	160	72
	1000	32	9
20	10	920	300
	100	350	100
	1000	63	15

[1] The results shown here are typical for Model 4751B3T which has a 1000 pF feedback capacitor. Because of the higher gain of Models 4751B1T and B2T, and the higher value of feedback capacitor for Model 4751B3T, the frequency response of these Models will be accordingly reduces compared to the results shown in the above chart.