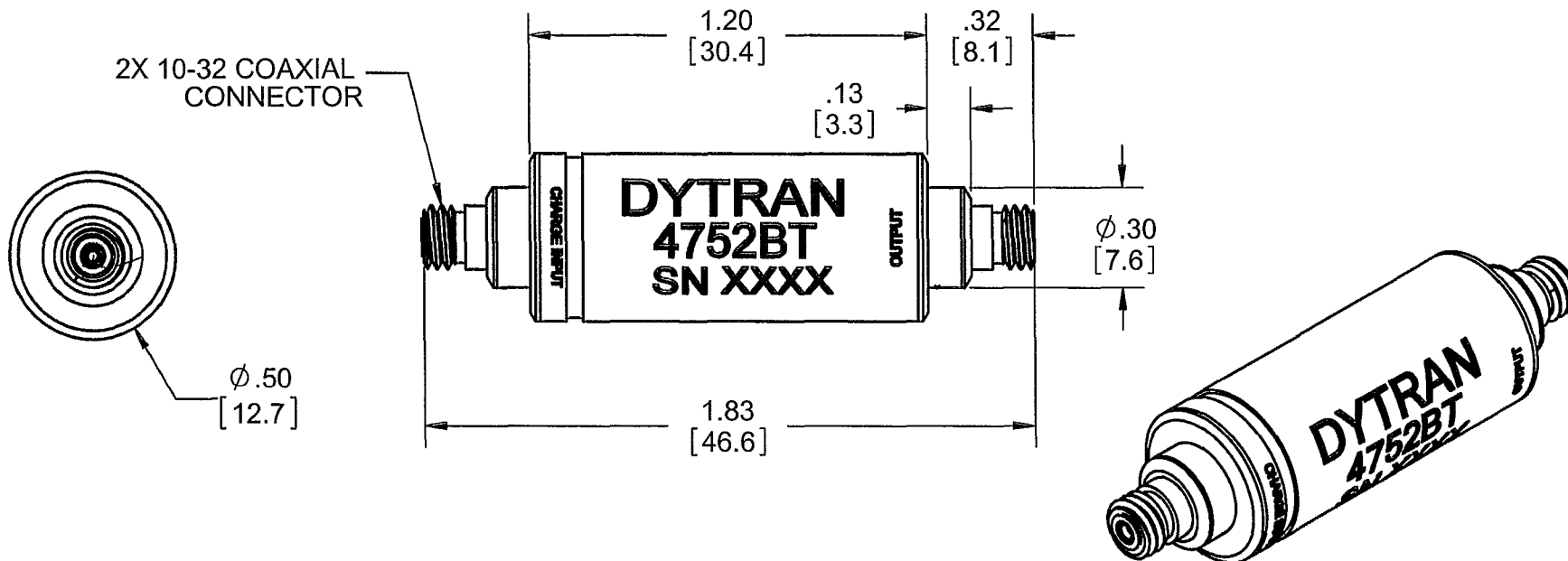


PROPRIETARY AND CONFIDENTIAL

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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	7638	INITIAL RELEASE	RA 06/30/11	ANS	-
B	10129	SEE ECN	AB 07/03/13	MH	<i>[Signature]</i>



2. WEIGHT: 17 GRAMS MAX

1. CONNECTOR/HOUSING MATERIAL: 304L

NOTES: UNLESS OTHERWISE SPECIFIED

<p>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.</p>		<p>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 ± 0.10 .XX ± 0.25</p>		<p>CONTRACT NO.</p>		<p>DYTRAN INSTRUMENTS, INC. MASTER ONLY IF IN RED Chatsworth, CA</p>	
USED ON	NEXT ASSY	MATERIAL		APPROVALS		DATE	
APPLICATION		FINISH		ORIG	DV	1/14/11	
THIRD ANGLE PROJECTION USA		DO NOT SCALE DRAWING		CHK	ANS	08/05/11	
<p>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.</p>				APP	<i>[Signature]</i>	7/9/13	
<p>TITLE: OUTLINE/INSTALLATION DRAWING, IN-LINE CHARGE AMP W/ TEDS, MODEL 4752BT</p>				SIZE	CAGE CODE	DWG. NO.	REV
				A	2W033	127-4752BT	B
SCALE: NONE				SOLIDWORKS		SHEET 1 OF 1	

Model Number 4752BT	PERFORMANCE SPECIFICATION	DOC NO PS4752BT
	Charge Amplifier, In-line	REV A, ECN 7638, 07/27/11



- FAST TURN ON TIME
- HIGH TEMPERATURE SENSORS
- MINIATURE PACKAGE
- TOLERATES LOW INSULATION RESISTANCE FROM SENSORS
- HERMETICALLY SEALED
- TEDS FEATURE

This family also includes:

Model	Sensitivity (mV/pC)	Range (pC)	Resolution (µVrms)	Oper. Temp(°F)	TC

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

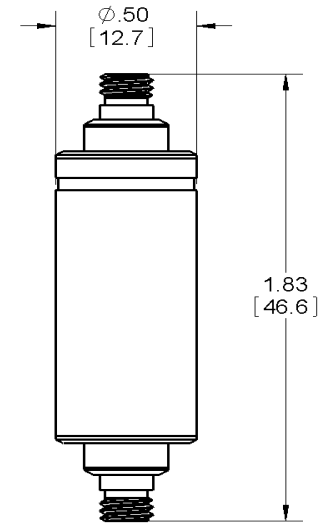
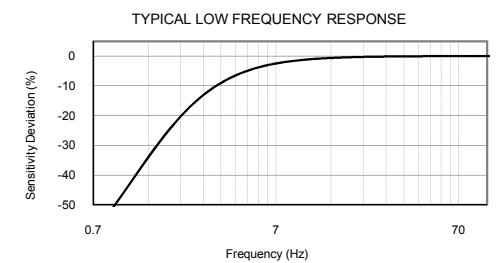
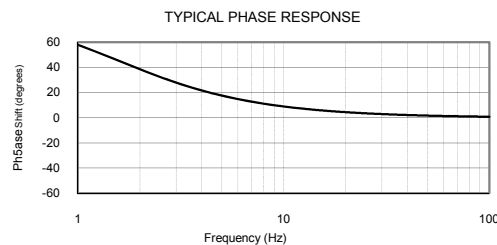
Supplied Accessories:

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.

	ENGLISH		SI	
PHYSICAL				
Weight, MAX	0.60	oz	17	grams
Input Connector [1]	Type 10-32		Type 10-32	
	Material 304L		Material 304L	
Output Connector [1]	Type 10-32		Type 10-32	
	Material 304L		Material 304L	
Housing	Material 304L		Material 304L	
	Isolation Case Grounded		Isolation Case Grounded	
PERFORMANCE				
Sensitivity, ±3% [2]	10	mV/pC	10	mV/pC
Input Range	500	pC	500	pC
Frequency Range, ±5%	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)	40	µVrms	40	µVrms
Maximum Input Voltage	30	Vp	30	Vp
Minimum Source Resistance	300	kΩ	300	kΩ
Maximum Source Capacitance	20000	pF	20000	pF
Turn on Time (within 10% of bias)	<5	sec	<5	sec
Thermal coefficient of sensitivity, Max	0.01	%/°F	0.02	%/°C
ELECTRICAL				
Supply Current Range [4]	4 to 20	mA	4 to 20	mA
Compliance Voltage Range	+18 to +30	VDC	+18 to +30	VDC
Output Impedance, Typ.	<100	Ω	<100	Ω
Output Bias Voltage	12 to 15	VDC	12 to 15	VDC
Discharge Time Constant	0.1 to 0.3	sec	0.1 to 0.3	sec
Polarity	Inverting		Inverting	
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	-40 to +185	°F	-40 to +85	°C
Seal	Hermetic		Hermetic	



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-4752BT for more information.



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