
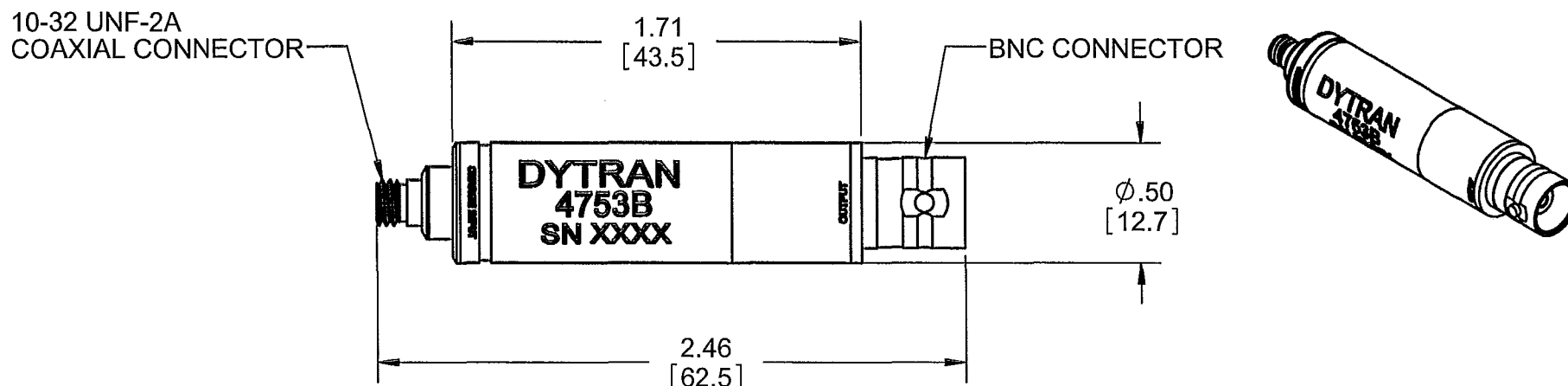



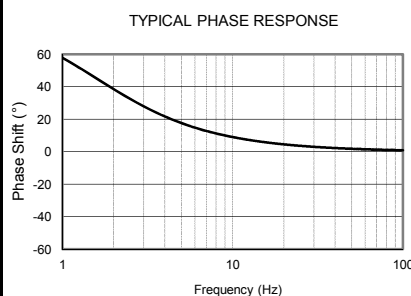
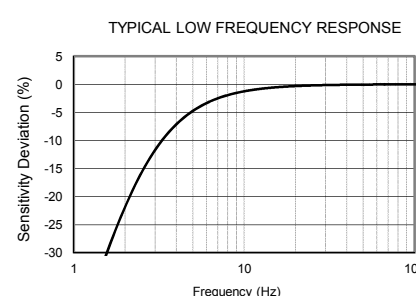
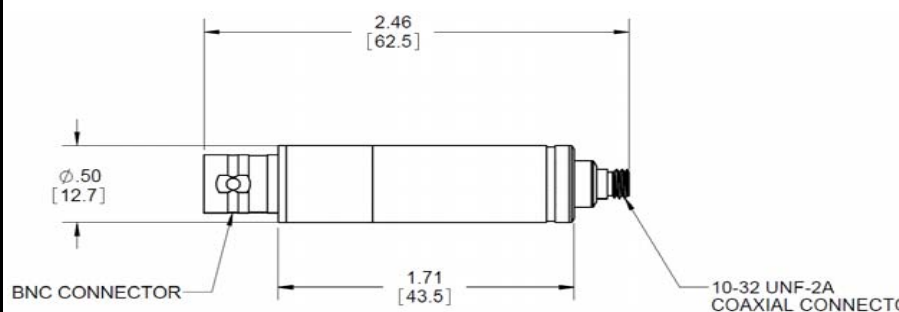
PROPRIETARY AND CONFIDENTIAL		REVISIONS					
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DYTRAN INSTRUMENTS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF DYTRAN INSTRUMENTS INC. IS PROHIBITED		REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
		A	8355	INITIAL RELEASE	LN, 03/02/12	RA	ANS
		B	10129	SEE ECN	AB 07/03/13	MH	



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

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		CONTRACT NO.		<b>MASTER</b> ONLY IF IN RED	
USED ON APPLICATION THIRD ANGLE PROJECTION USA		MATERIAL FINISH DO NOT SCALE DRAWING		APPROVALS ORIG    LN    02/27/12 CHK    RA    03/05/12 APP    ANS    03/14/12 APP        7/9/13		TITLE: <b>OUTLINE/INSTALLATION DRAWING, MODEL 4753B</b>	
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.		SCALE: NONE		CAGE CODE <b>2W033</b>		DWG. NO. <b>127-4753B</b>	
SHEET 1 OF 1		SOLIDWORKS		REV <b>B</b>		SCALE: NONE	

172-0081, REV C

Model Number 4753B		PERFORMANCE SPECIFICATION				DOC NO PS4753B																			
		CHARGE AMPLIFIER, IN-LINE				REV E, ECN 11376, 03/25/15																			
		<ul style="list-style-type: none"><li>• FAST TURN ON TIME</li><li>• HIGH TEMPERATURE SENSORS</li><li>• MINIATURE PACKAGE</li><li>• TOLERATES LOW INSULATION RESISTANCE FROM SENSORS</li></ul>																							
		<b>This family also includes:</b>																							
		<table><tr><th>Model</th><th>Sensitivity (mV/pC)</th><th>Range (pC)</th><th>Resolution (μVrms)</th><th>Oper. Temp(°F)</th><th>TC</th></tr><tr><td>4753B1</td><td>1.0</td><td>5000</td><td>400</td><td>-40 to +185</td><td>0.1 to 0.3</td></tr><tr><td>4753B2</td><td>5.0</td><td>1000</td><td>200</td><td>-40 to +185</td><td>0.1 to 0.3</td></tr></table>					Model	Sensitivity (mV/pC)	Range (pC)	Resolution (μVrms)	Oper. Temp(°F)	TC	4753B1	1.0	5000	400	-40 to +185	0.1 to 0.3	4753B2	5.0	1000	200	-40 to +185	0.1 to 0.3	
Model	Sensitivity (mV/pC)	Range (pC)	Resolution (μVrms)	Oper. Temp(°F)	TC																				
4753B1	1.0	5000	400	-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																							
		<b>Supplied Accessories:</b> 1) Accredited calibration certificate (ISO 17025)																							
		<b>Notes:</b> [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.																							
<b>PHYSICAL</b>		ENGLISH		SI																					
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																					
<b>PERFORMANCE</b>																									
Sensitivity, ±3% [2]		10.0	mV/pC	10	mV/pC																				
Input Range		500	pC	500	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)		40	μVrms	40	μVrms																				
Maximum Input Voltage		30	Vp	30	Vp																				
Minimum Source Resistance		10	kΩ	10	kΩ																				
Maximum Source Capacitance		20000	pF	20000	pF																				
Turn on Time (within 10% of bias)		<1	minute	<1	minute																				
Thermal coefficient of sensitivity, Max		0.01	%/°F	0.02	%/°C																				
<b>ELECTRICAL</b>																									
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																					
<b>ENVIRONMENTAL</b>																									
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		Epoxy		Epoxy																					
																									
																									
																									
		Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-4753B for more information.																							