

3. SENSITIVITY: SEE TABLE

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

1. WEIGHT, MAX: 17 GRAMS

NOTES: UNLESS OT	HERWISE SPECIFIED		CONTRACT NO.	NA OTEN
			CONTRACT NO.	WASIER
	UNLESS OTHERWISE SPECIFIED: INTERPRET DIM & TOL PER	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES]	RONEY IF IN RED

USED ON NEXT ASSY **APPLICATION** THIRD ANGLE PROJECTION

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

DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS TOLERANCES ARE: INCHES METRIC ANGLES .X ± 0.8 ± 1° XX ± 03 .XXX±.010 .XX ±0.25

APPROVALS DATE MATERIAL ORIG LN 08/23/12 FINISH CHK JS 01/30/13 D۷ APP 06/26/13 DO NOT SCALE DRAWING APP

Chatsworth, CA TITLE:

OUTLINE/INSTALLATION DWG, IN-LINE CHARGE AMP, LOW **CURRENT & IR. MODEL 4754B**

SOLIDWORKS

MODEL

4754B

4754B1

4754B2

CAGE CODE DWG. NO. SIZE 2W033

SCALE: NONE

127-4754B

SHEET 1 OF 1

REV

SENSITIVITY

10mV/pC

0.1mV/pC

1.0mV/pC

172-0081, REV D

Model Number 4754B1	PE	ERFORMANCE SPECIFICATION	I	DOC NO PS4754B1	
		CHARGE AMPLIFIER, IN-LINE		REV D, ECN 15185, 06/28/19	



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

		ENGLISH		SI	
PHYSICAL				•	
Weight, Max		0.60	OZ	17	grams
Input Connector [1]	Type	10-32		10-32	
Output Connector	Type	10-32		10-32	
Housing	Material	300 Series		300 Series	
	Isolation	Case Grounded		Case Grounded	
			-		
PERFORMANCE			•		
Sensitivity, ±5% [2]		0.1	mV/pC	0.1	mV/pC
Input Range		50,000	рС	50,000	рС
Frequency Range, ±5%	2mA	5 to 40,000	Hz	5 to 40,000	Hz
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 Capacitano		20,000	pF	20,000	pF
Turn on Time (within 10% of		<1	minute	<1	minute
Thermal coefficient of sensitive	vity, Max	0.01	%/°F	0.02	%/°C
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		10.0 to 13.0	VDC	10.0 to 13.0	VDC
Discharge Time Constant		0.1 to 0.3	sec	0.1 to 0.3	sec
Polarity		Inverting		Inverting	
ENVIRONMENTAL					
Shock Max		2000	a nk	19620	m/s^2
Vibration Max		300	g pk	2943	m/s^2
			g pk °F	-40 to +85	°C
Operating Temperature Seal		-40 to +185 HERMETIC		HERMETIC	C
Radiation Exposure Limit		HERWEIT		HERIVIETIC	
(Integrated Neutron Flux)		1.0E+10	N/cm ²	1.0E+10	N/cm ²
Radiation Exposure Limit					
(Integrated Gamma Flux)		1.0E+06	rad	1.0E+06	rad
,					

This famil	v also	includes:
i iliə lalili	y uiso	moluucs.

Tine lanning a	iloo iiiolaaool	molado				
Model	Sensitivity (mV/pC)	Range (pC)	Resolution (µVrms)	Oper. Temp(°F)	TC	
4754B	10	500	40	-40 to +185	0.1 to 0.3	
4754B2	1	5,000	40	-40 to +185	0.1 to 0.3	

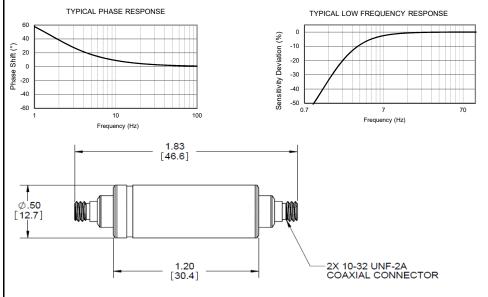
Refer to the performance specifications of the products in this family for detailed description

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 127-4754B for more information.

