

EXCEPT AS OTHERWISE NOTED

ALL DIMENSIONS IN INCHES  
 TOLERANCE: .XXX = ± .XX= ±  
 SURFACE FINISH EXCEPT AS NOTED ✓  
 BREAK EDGES TO DEBURR RADIUS OR CHAMFER

△ THESE DIAS ○ TO T.I.R.  
 FILLETS - MAX RAD.

ALL PART NUMBER LETTER SUFFIXES ARE TO BE INTERPRETED AS FOLLOWS:

I.E. - 107-0000-01 (X)  
 M - MACHINED ONLY (UNPLATED) G - MATERIAL HAS BEEN GRAINED  
 P - PLATED/PAINTED S - MATERIAL HAS BEEN SAWCUT  
 H - HEAT TREATED E - ENVIRONMENTAL TEST

		<b>MASTER ONLY IF IN RED</b>		CHATSWORTH, CA.	
SCALE	2X	REV	-	DATE	-
DATE	5/15/95	PART NO.			
DRAWN	D.Z.	CHECKED	-	MAT'L	-
APPROVED	<i>Cha</i>	NEXT ASSEMBLY	USED ON		4705M4, M11, M22
TITLE				DWG NO.	
OUTLINE/INSTALLATION DRAWING, MODELS 4705M4, 4705M11 & 4705M22				<b>127-4705M4</b>	
				SHEET 1 OF 1	

<b>Model Number</b> 4705M4	<b>PERFORMANCE SPECIFICATION</b>	<b>DOC NO</b> PS4705M4
	<b>CHARGE AMPLIFIER, IN-LINE</b>	REV A, ECN 12922, 08/23/16



- FAST TURN ON TIME
- MINIATURE PACKAGE

**PHYSICAL**

	ENGLISH		SI	
Weight, Max	1.2	oz	33	grams
Connector	10-32 Jack		10-32 Jack	
	BNC Jack		BNC Jack	
Housing	300 Series S.S.		300 Series S.S.	
Isolation	Case Grounded		Case Grounded	

**PERFORMANCE**

	ENGLISH		SI	
Sensitivity, ±10%	10.0	mV/pC	10.0	mV/pC
Input Range, ±5V out	±500	pC	±500	pC
Low Frequency Response, -3dB / -5%	0.32 / 0.96	Hz	0.32 / 0.96	Hz
High Frequency Response	[2]	Hz	[2]	Hz
Feedback Capacitor	100	pF	100	pF
Thermal Coefficient of Sensitivity, Max.	0.02	%/°F	0.04	%/°C
Minimum Source Resistance	200	MΩ	200	MΩ

**ELECTRICAL**

	ENGLISH		SI	
Supply Current Range [1]	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	11	VDC	11	VDC
Discharge Time Constant	0.5	sec	0.5	sec

**ENVIRONMENTAL**

	ENGLISH		SI	
Shock Max.	2000	g pk	19620	m/s <sup>2</sup>
Vibration Max.	300	g pk	2943	m/s <sup>2</sup>
Operating Temperature	-50 to +185	°F	-46 to +85	°C
Seal	Epoxy		Epoxy	

**This family also includes:**

Model	Sensitivity (mV/pC)	Range (pC)	Insulation Resistance (Ω)	Feedback Capacitor (pF)

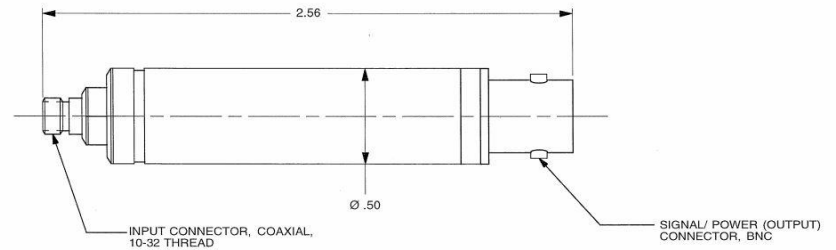
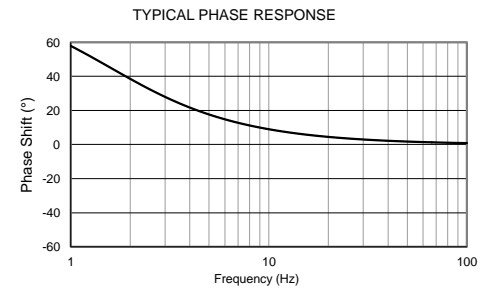
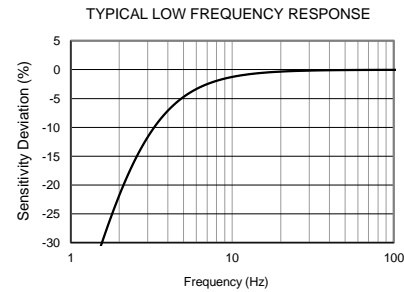
Refer to the performance specifications of the products in this family for detailed description

**Supplied Accessories:**

- 1) Accredited calibration certificate (ISO 17025)

**Notes:**

- [1] Do not apply power to this device without current limiting, 20 mA MAX. To do so will destroy the integral IC amplifier.
- [2] High frequency response depends upon drive current and cable length, since there is no filtering.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-4705M4 for more information.



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax: 818.700.7880 [www.dytran.com](http://www.dytran.com)  
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