2.56

Ø .50

INPUT CONNECTOR, COAXIAL,
10-32 THREAD

SIGNAL/ POWER (OUTPUT)
CONNECTOR, BNC

DYTRAN INSTRUMENTS, INC.

CHATSWORTH, CA.

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.

SCALE	2X	REV	-	DATE	-	ECN	-	
DATE	5/15/95	PART NO.			-			
DRAWN	D.Z.	CHECKED	-	MAT'L		-		
APPROVED	3-10-10	NEXT ASSEMBLY				USED ON	4705M4, M11, M22	

TITLE

**OUTLINE/INSTALLATION DRAWING, MODELS
4705M4, 4705M11 & 4705M22**

DWG NO.

127-4705M4

SHEET 1   OF 1

ALL PART NUMBER LETTER SUFFIXES ARE TO BE INTERPRETED AS FOLLOWS:
I.E. - 107-0000-01 Ⓧ
M - MACHINED **ONLY** (UNPLATED)   **G** - MATERIAL HAS BEEN GRAINED
P - PLATED/PAINTED   **S** - MATERIAL HAS BEEN SAWCUT
H - HEAT TREATED   **E** - ENVIRONMENTAL TEST

- **FAST TURN ON TIME**
- **MINIATURE PACKAGE**

This family also includes:

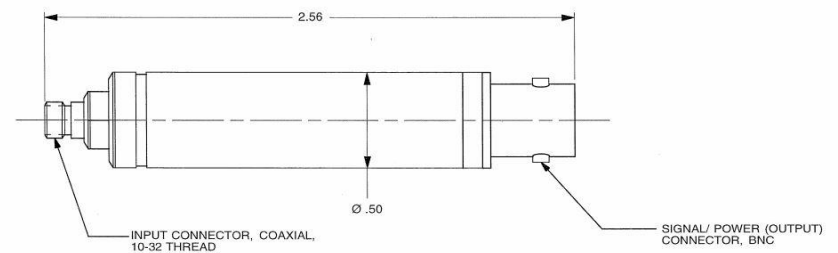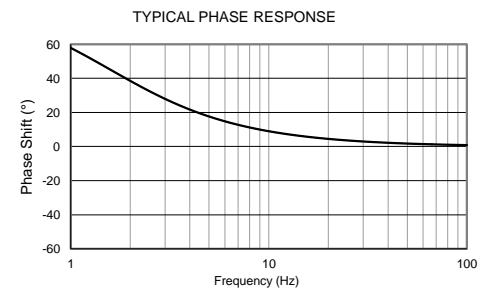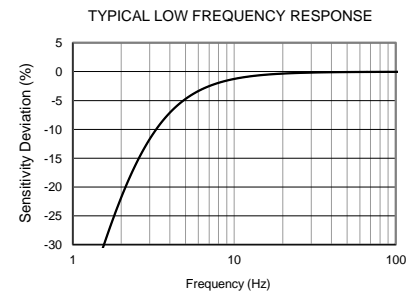| Model	Sensitivity (mV/pC)	Range (pC)	Insulation Resistance (Ω)	Feedback Capacitor (pF)

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.

PHYSICAL

		ENGLISH		SI	
Weight, Max		1.2	oz	33	grams
Connector	Input	10-32 Jack		10-32 Jack	
	Sig/Pwr	BNC Jack		BNC Jack	
Housing	Material	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^2
Vibration Max.	300	g pk	2943	m/s^2
Operating Temperature	-50 to +185	°F	-46 to +85	°C
Seal	Epoxy		Epoxy	

TYPICAL LOW FREQUENCY RESPONSE

TYPICAL PHASE RESPONSE

INPUT CONNECTOR, COAXIAL, 10-32 THREAD

SIGNAL/ POWER (OUTPUT) CONNECTOR, BNC

2.56

Ø .50

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

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