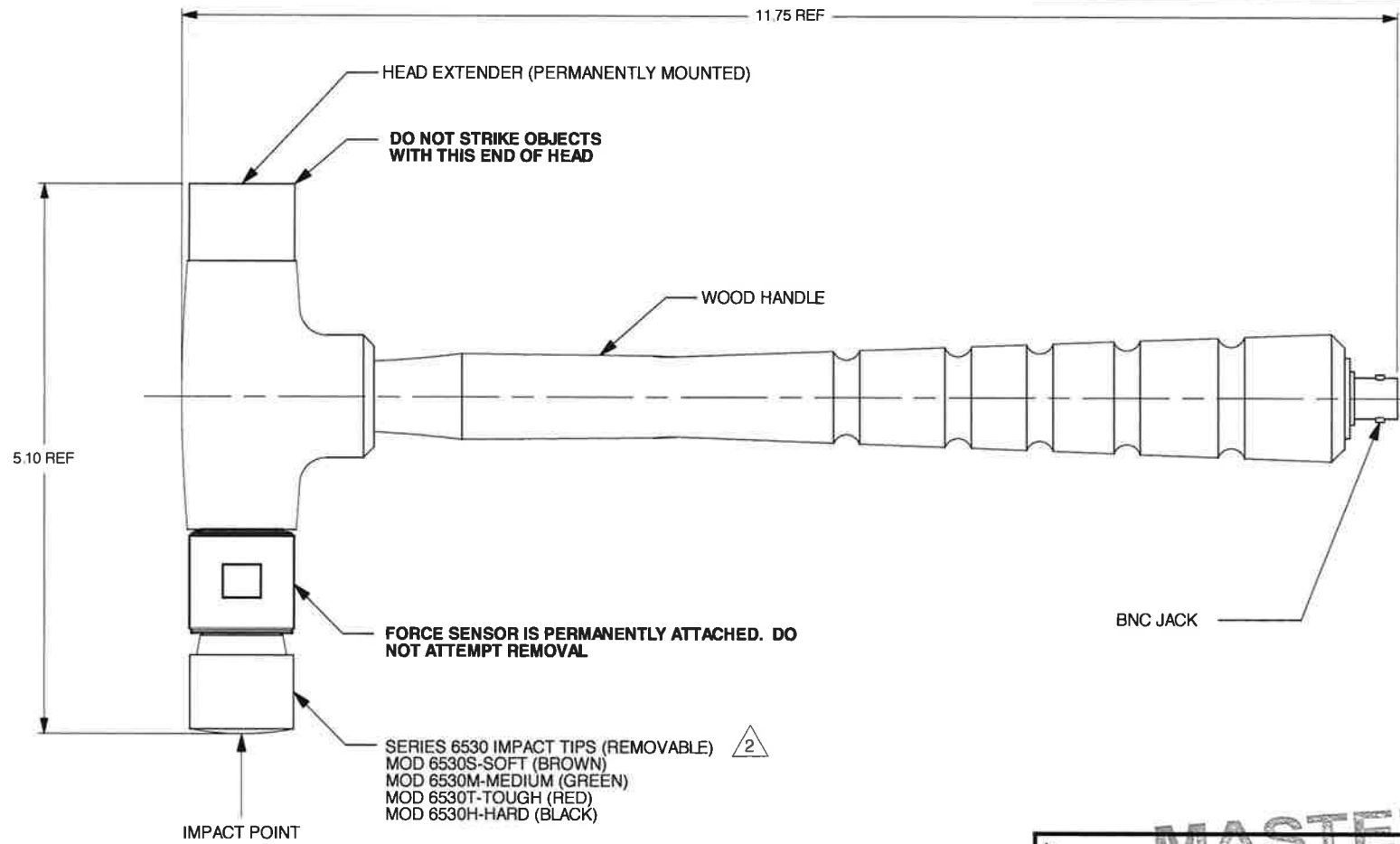


REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	14056	ADDED NOTE 3 OPERATING TEMP	RLA 03/07/18	<i>MJJ</i>	<i>LN</i>



3. OPERATING TEMP: -40°C TO +66°C (-40°F TO +151°F)

2 NEVER USE HAMMER WITHOUT IMPACT TIP ATTACHED TO THE FRONT SURFACE OF THE SENSOR AS SHOWN. THIS WILL PERMANENTLY DAMAGE THE SENSOR.

1. HEAD WEIGHT-1 LB

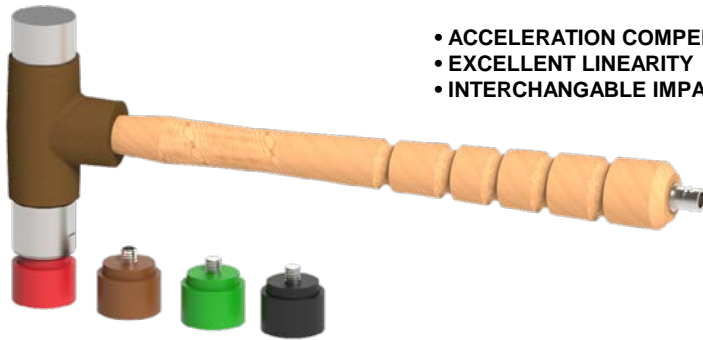
REDRAWN ON CAD 1/4/99

EXCEPT AS OTHERWISE NOTED	
ALL DIMENSIONS IN INCHES	
TOLERANCE: .XXX ±	XX ± .01
SURFACE FINISH EXCEPT AS NOTED	<input checked="" type="checkbox"/>
BREAK EDGES TO DEBURR RADIUS OR CHAMFER	
<input checked="" type="checkbox"/> THESE DIAS TO	T.I.R.
FILLETS -	MAX RAD.

MASTER COPY IF IN RED

PHYTRAN INSTRUMENTS, INC. CHATSWORTH, CA.

SCALE: 1X	REV: -	DATE: -	ECN: -
DATE: 3/2/95	PART NO: -		
DRAWN: N.C.	CHECKED: N.C.	MATL: -	
APPROVED: -	NEXT ASSEMBLY: -	USED ON: 5805A	
TITLE: OUTLINE INSTALLATION DRAWING, MODEL 5805A IMPULSE HAMMER			DWG NO: 127-5805A
SHEET 1 OF 1			



- ACCELERATION COMPENSATED
- EXCELLENT LINEARITY
- INTERCHANGABLE IMPACT TIPS

PHYSICAL

		ENGLISH		SI	
Weight	Head	1.0	lbs	0.45	kg
Length		11.75	in.	29.85	cm
Connector	Type	Coaxial		Coaxial	
	Thread	BNC		BNC	
	Location	End		End	
Material	Force Sensor	17-4 PH SS		17-4 PH SS	
	Hammer Head	Cast Steel		Cast Steel	
	Handle	Wood		Wood	
	Impact Tips	Polyurethane		Polyurethane	
Sensing Element	Material	Quartz		Quartz	
	Mode	Compression		Compression	

PERFORMANCE

Sensitivity, ± 10 %	1	mV/LbF	0.25	mV/N
Range	5,000	Lbs. Force	22.2	kN
Maximum Force	10,000	Lbs. Force	44.5	kN
Linearity [3]	± 1	% Full Scale	± 1	% Full Scale
Resonant Frequency	>50	kHz	>50	kHz
Stiffness, Force Sensor	8	Lb/μin	1.39	kN/μm

ELECTRICAL

Output Voltage F.S	±5	V	±5	V
Output Impedance, Max [4]	100	Ω	100	Ω
Bias Voltage	7.5 to 9.5	VDC	7.5 to 9.5	VDC
Compliance Voltage Range [2]	+18 to +30	VDC	+18 to +30	VDC
Supply Current Range [2]	2 to 20	mA	2 to 20	mA
Discharge Time Constant, Nom	>1500	Sec	>1500	Sec

ENVIRONMENTAL

Operating Temperature	-40 to +151	°F	-40 to +66	°C
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Supplied Accessories:

- Series 6530 Impact Tips: SEE TABLE →
- Accredited calibration certificate (ISO 17025)

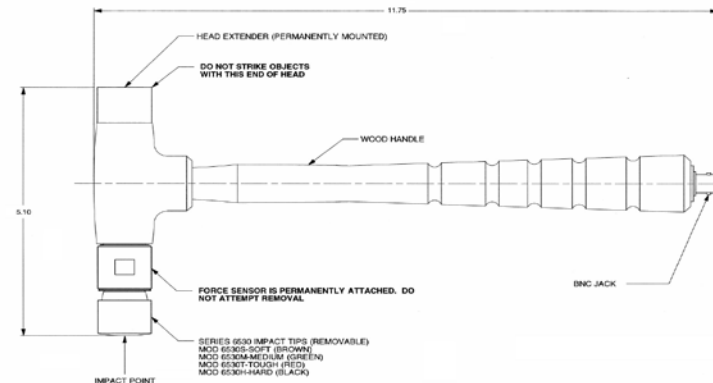
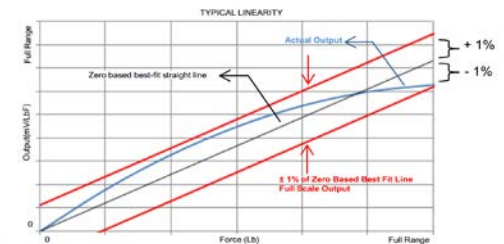
Part #:	Color:	Hardness:	Excitation:
6530S	Brown	Soft	Lower Frequency
6530M	Green	Medium	
6530T	Red	Tough	Higher Frequency
6530H	Black	Hard	

Suggested Accessories

- Constant Current Power Source Units:
 - 4105C: Battery Powered
 - 4114B1: Line Operated
- Compatible Cables:
 - 6020AXX: BNC to BNC connection
 - 6011AXX: BNC to 10-32 connection
 - 6113: 10-32 to BNC adaptor

Notes:

- In the interest of constant product improvement, we reserve the right to change specifications without notice.
- Supply power from constant current source power sources only. Do not use with power supply without current limiting, 20mA maximum. To do so will destroy built-in amplifier.
- Percent of full scale or any lesser range, Zero based best-fit straight line method.
- Do not attempt to measure the resistance at the BNC connector. Many Ohm meters will provide a test voltage with high enough current to destroy the built-in IC.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-5805A for more information.

