

Model Number 5803A PERFORMANCE SPECIFICATION Doc No PS5803A IMPULSE HAMMER REV B, ECN 14056, 0306/18



ENGLISH

12.0

35.3

Coaxial

BNC

End

17-4 PH SS

lbs

in.

kHz

Lb/µin

PHYSICAL	
Weight	Head
Length	
Connector	Type
	Thread
	Location
Material	Force Sensor
	Hammer Head
	Handle
Consing Florant	Impact Tips
Sensing Element	Material Mode
	Mode
PERFORMANCE	
Sensitivity, ± 10 %	
Range	
Maximum Force	
Linearity [3]	

Resonant Frequency

Compliance Voltage Range [2] Supply Current Range [2] Discharge Time Constant

Stiffness

ELECTRICAL
Output Voltage F.S
Output Impedance, Max [4]

Bias Voltage

ENVIRONMENTAL
Operating Temperature

	Cast Steel	
	Wood	
	Polyurethane	
	Quartz	
	Compression	
_		_
	1	mV/LbF
	5,000	Lbs. Force
	10,000	Lbs. Force
	± 1	% Full Scale

±5	V
100	Ω
+7.5 to +9.5	VDC
+18 to +30	VDC
2 to 20	mA
>1600	Sec
	_

-40 to +151	٥F
	-

SI	
	-
5.44	kg
89.66	cm
Coaxial	
BNC	
End	
17-4 PH SS	
Cast Steel	
Wood	
Polyurethane	
Quartz	
Compression	

±5	V
100	Ω
+7.5 to +9.5	VDC
+18 to +30	VDC
2 to 20	mA
>1600	Sec

0.25

44.5

± 1

75

19.06

	-40 to +66	
-		•

Supplied Accessories:

- 1) Series 6252 Impact Tips: SEE TABLE →
- 2) Accredited calibration certificate (ISO 17025)

Suggested Accessories

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

Notes:

[1] In the interest of constant product improvement, we reserve the right to change specifications without notice.

Part #:

6252S

6252M

6252T

6252H

Color:

Brown

Green

Red

Black

Hardness:

Soft

Medium

Tough

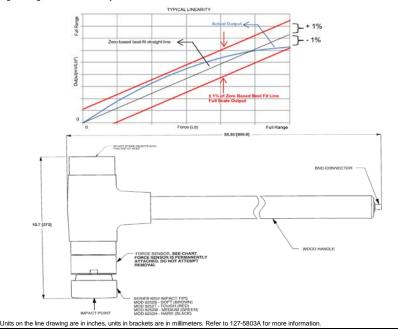
Hard

Excitation:

Lower Frequency

★ Higher Frequency

- [2] 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.
- [3] Percent of full scale or any lesser range, Zero based best-fit straight line method.
- [4] 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.





21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.700.7880 www.dytran.com For permission to reprint this content, please contact info@dytran.com

mV/N

kN

kN

% Full Scale

kHz

kN/μm