

GS-32CT

CLOSE TOLERANCE GEOPHONE SPECIFICATIONS

Specifications at 25°C.

* Maintains all specifications at Vertical to

20° tilt with the following exception:

Harmonic Distortion at 12 Hz (Vertical to 10° tilt).

	<u>395 ohm</u>	<u>635 ohm</u>
Frequency		
Natural Frequency (Fn):	10 Hz ± 2.5%	10 Hz ± 2.5%
Typical spurious Frequency:	>250 Hz	>250 Hz
Resistance		
D C Resistance (DCR)	395 ohms ± 2.5%	635 ohms ± 2.5%
Distortion		
Harmonic Distortion with coil to case velocity of 0.7 in/sec (1.8 cm/sec) P-P @ 12 Hz	<0.10%	<0.10%
String, 12 series, damped 70%	<0.03% (Typical)	<0.03% (Typical)
String, 12 series, damped 68.3%		<0.03% (Typical)
With coil to case displacement of 0.0093 in (0.0236 cm) P-P @ 10 Hz	<0.20%	<0.20%
Sensitivity		
Intrinsic Voltage Sensitivity (G):	.698 V/in/s, .275 V/cm/s	.880 V/in/s, .346 V/cm/s
Sensitivity @ 70% Damping	.500 V/in/s, .197 V/cm/s ± 2.5%	.640 V/in/s, .252 V/cm/s ± 2.5%
Sensitivity @ 68.3% Damping		
Normalized Transduction Constant:	.0351 $\sqrt{\text{DCR}}$ V/in/s .0138 $\sqrt{\text{DCR}}$ V/cm/s	.0349 $\sqrt{\text{DCR}}$ V/in/s .0137 $\sqrt{\text{DCR}}$ V/cm/s
Damping		
Open Circuit Damping (Bo)	31.6%	31.6%
Shunt Resistance for Damping Calibration	1000 ohms	1690 ohms
Damping Constant	536.0	852.8

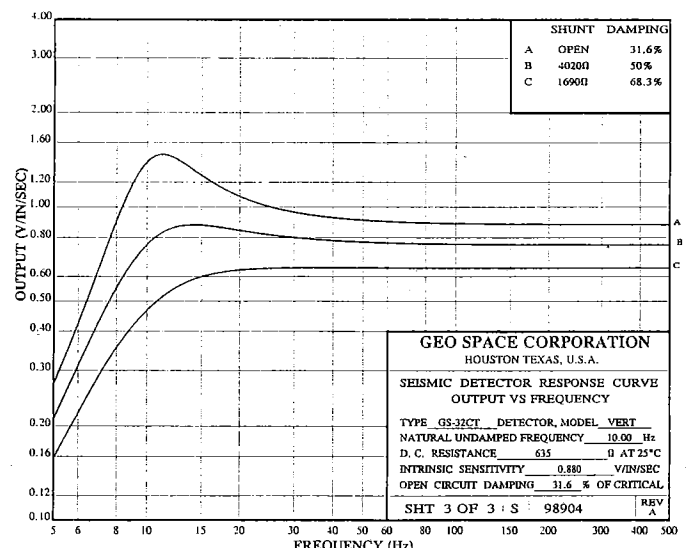
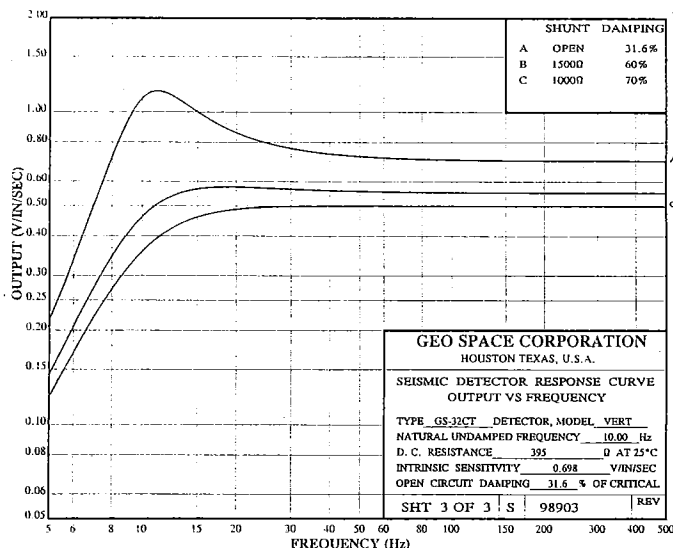
Physical Specifications

Moving Mass (M):	.395 oz. (11.2 g) + 2.5%
Case to Coil Motion P-P:	.06 in (.152 cm)
Operating and Storage Temperature:	-45° to 100° C
Dimensions (less terminals*)	
Weight	3.03 oz, 86 g
Diameter	1.00 in, 2.54 cm
Height	1.30 in, 3.30 cm

*Terminal height is .16 in (.41 cm)

Cases Available
PC-801-LP Land Case
PC-801-LPC Land Case
PC-901 Marsh Case
GS-3C Land Case

Specifications are subject to change without notice.



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