



## HGS (INDIA) LIMITED



### HG-5 LF HS Geophone Element



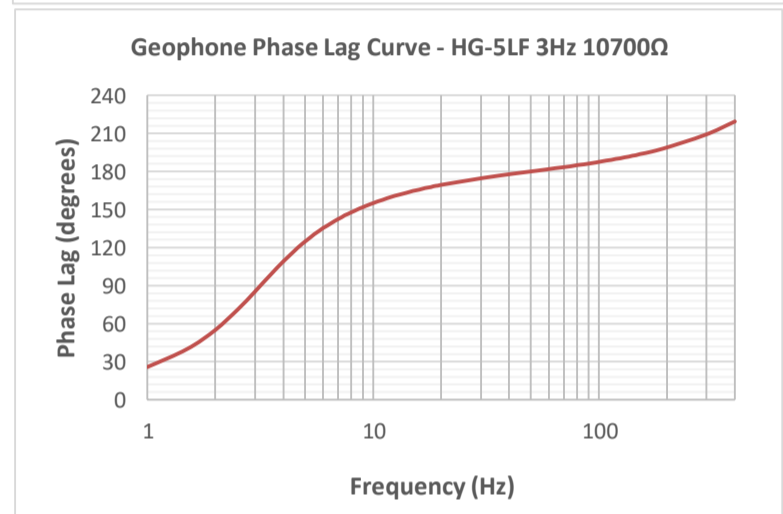
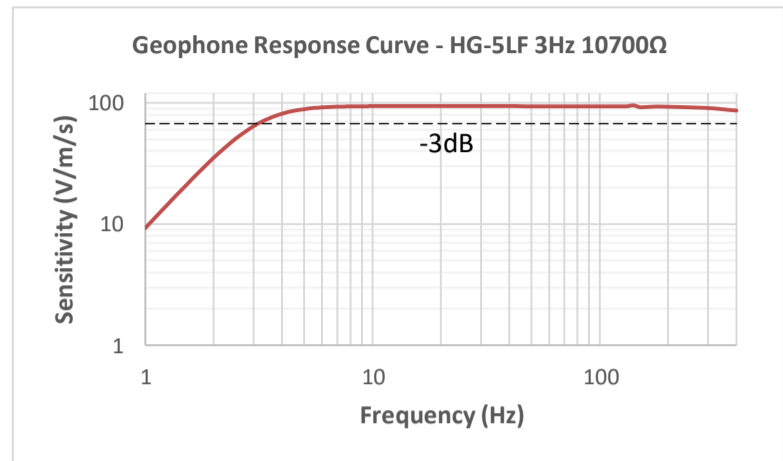
Based on the technology transfer for manufacturing the SM<sup>®</sup> range of geophones from Sensor<sup>®</sup> Nederland BV, HGS (India) Limited (erstwhile Geosource India Limited) offers the HG-5 LF geophone with 3 Hz natural frequency for picking up low frequency and deep level signals. The low frequency response is attained by the addition of a resistor - capacitor (RC) network.

Applications: Vibration monitoring & Seismology

- Features:
- Low frequency geophone with the smallest form factor in the industry
  - Very low frequency
  - Very high Sensitivity
  - Distortion  $\leq 0.9\%$
  - Rugged design with rotating-coil contacts

### Specifications - HG-5 LF HS U 3 Hz 10800 Ohm

	Implicit parameters Value	Explicit parameters Value
Natural frequency	3 Hz	4.5 Hz
Tolerance	± 20%	± 0.5 Hz
Distortion	≤0.9%	≤0.1%
Damping	0.7	0.65
Tolerance	± 20%	± 5%
Sensitivity	89 V/m/s	204 V/m/s
Tolerance	± 20%	± 5%
Moving mass	2.7 g	13.5 g
Max coil excursion p.p .	3 mm	3 mm
Coil Resistance	10800 Ω	11500 Ω
Tolerance	± 10%	± 5%
<b>Physical Characteristics</b>		
Diameter	26.7 mm	26.7 mm
Height	44 mm	39.3 mm
Weight	105 g	
Operating temperature range	-40°C to 70°C	
<b>Warranty Period*</b>	1 year	



\*Warranty excludes damage caused by high voltage and physical damage to the element case.

All parameters are specified at +20°C in the working position unless stated otherwise.

#### Ordering information

Description	Part No.	Working position
HG-5 LF HS U 3 Hz 10800 Ohm	SG000538	Upright
HG-5 LF HS H 3 Hz 10800 Ohm	SG000540	Horizontal

Version 1.0

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