HIGH-TEMPERATURE GEOPHONE

SMALL SIZE, HIGH OUTPUT

PRODUCT DESCRIPTION

The SMC-1850 High-Temperature Geophone has been tested at 200ºC for more than 300 hours with no loss in performance specifications. Its design structure and super-strength magnetic field make the output of this small geophone equal to or greater than the output of larger vibration monitoring units. Its rotating dual-coil construction withstands severe shocks and rough handling. The patented PCB header provides easy and reliable electrical connections.

FEATURE HIGHLIGHTS

- All units tested at 200ºC
- Ideal for VSP, triaxial, and gimbal downhole operations
- Full one-year warranty
- Patented PCB header
- 100 percent burn-in of basic units

SMC-1850 GEOPHONE

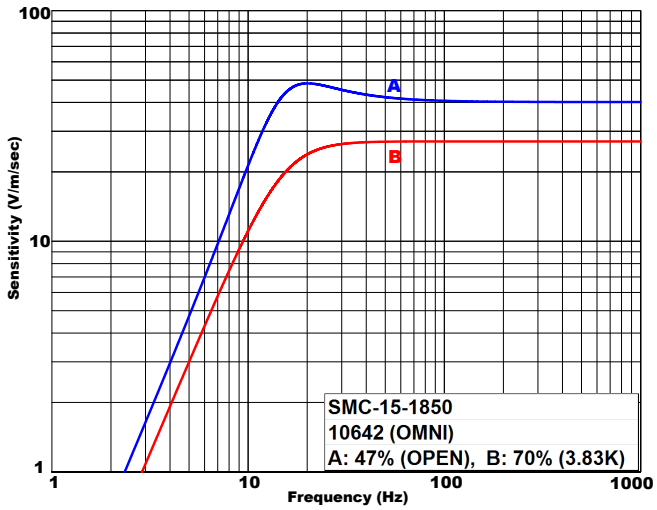
MECHANICAL SPECIFICATIONS

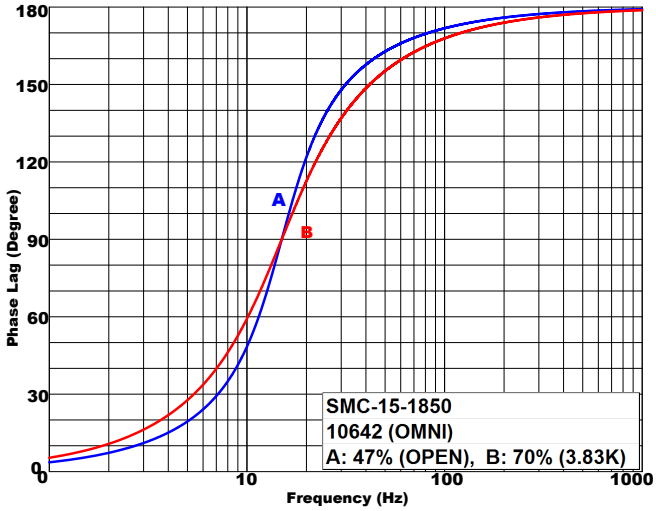
	METRIC	US
Orientation	Omni (Vertical and Horizontal Available)	
Moving Mass	6.6 g	0.23 oz
Maximum Coil Excursion p-p	3.05 mm	0.12 in.
Diameter	2.22 cm	0.875 in.
Height	2.64 cm	1.04 in.
Weight	44 g	1.52 oz
Storage Temperature	–40°C to +100°C	–40 to +212°F
Operating Temperature	–40°C to +200°C	–40 to +392°F

ELECTRICAL SPECIFICATIONS @25°C

Frequency	15 Hz *	
Spurious Frequency	365 Hz	
Distortion at Vertical	< 1%	
Coil Resistance	1850 Ω *	
Open-Circuit Sensitivity	40.16 V/m/s	1.02 V/i/s
Sensitivity at 70% Damping	27.56 V/m/s	.70 V/i/s
Open-Circuit Damping	47%	

* Other frequencies and resistances available





SOLUTIONS FOR A SMARTER FUTURE

Specifications subject to change at sole discretion of Geospace Technologies.