REV	DESCRIPTION OF CHANGE	ECO NO	CHG BY	DATE
A	ADD OPERATIONAL RANGE TOL	1573	H.A.	1/14/99

SENSING SYSTEMS ENGINEERING

PRODUCT / CUSTOMER SPECIFICATION

FOR

SMC-1850, 15-1850 OMNI

P/N

10642

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GEO SPACE CORPORATION Houston, Texas, U.S.A.

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DATE DWN.				
01/14/99	TITLE SMC-1850, 15-1850 OMNI			
CHECK BY	51/1C-1630, 13-1630 OMINI			
		SHEET 1 OF 3		
APP. BY W. Q.	SPECIFICATION #	REV.		
1-14-99	S- 10642	A		

PRODUCT/CUSTOMER **SPECIFICATION**

PART NUMBER: 10642

DESCRIPTION	SPECIFICATION @ 25°C	TOL
OPTIMUM ORIENTATION OPERATIONAL RANGE	<u>HORIZ.</u> <u>0° TO 180°</u> (OMNI)	
NATURAL FREQUENCY (Fn) @ OPTIMUM ORIENTATION @ OPERATIONAL RANGE	<u>15</u> Hz <u>15</u> Hz	<u>± 5</u> % <u>-5</u> % to + <u>15</u> %
COIL EXCURSION P-P @ OPTIMUM ORIENTATION @ OPERATIONAL RANGE	>.120 in, >.305 cm >.022 in, >.056 cm	
CLEAN BAND PASS (SPURIOUS RESPONSE)	≥ 365 Hz	
DC RESISTANCE		<u>±5</u> %
INTRINSIC VOLTAGE SENSITIVITY (G) @ OPTIMUM ORIENTATION @ OPERATIONAL RANGE	1.020 V/in/sec, 0.402 V/cm/sec 1.020 V/in/sec, 0.402 V/cm/sec	±5% -15% to +5%
NORMALIZED TRANSDUCTION CONSTANT Coil Resistance (R_c) <u>1850</u> Ω	$\underline{0237}\sqrt{R_c}$ V/in/sec	
OPEN CIRCUIT DAMPING (B _o) @ OPTIMUM ORIENTATION @ OPERATIONAL RANGE	<u>.47</u> <u>.47</u>	<u>± 15</u> % <u>-20</u> % to + <u>10</u> %
MOVING MASS (M)	_6.6 gr	<u>±5</u> %
HARMONIC DISTORTION @ 15 Hz WITH DRIVING VELOCITY OF .7 in/sec (1.8 cm/sec) P-P		<u> </u>
@ OPTIMUM ORIENTATION @ OPERATIONAL RANGE	<u>< .20</u> % <u>< .90</u> %	
DAMPING CONSTANT (B,R,)		
STORAGE TEMPERATURE	- 40 to +100 °C	
OPERATING TEMPERATURE	- 40 to +200 °C	
DIMENSIONS		
WEIGHT	<u>1.520</u> oz, <u>44</u> gr	
DIAMETER	<u>0.875</u> in, <u>2.22</u> cm	
HEIGHT	1.035 in, 2.63 cm	

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