Silicon Sensing UK copy of
SPP (Japan) originated

Product Specification

for

CRS03-11-PS
Rev 4
(Commercial Rate Sensor)
PRODUCT SPECIFICATION FOR SINGLE AXIS
SILICON VIBRATING STRUCTURE GYRO (CRS903-11)

シライオCRS903-11仕様書（表紙番号SST-0014）

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4
P1: Notice revised
P3: Fig. 1 amended
04.04.26

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SCN-0211
P1,2,3 (All revised)
02.02.25
RT TK KK
KB TN KH

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RT TK KY
KY

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Sakamoto
Yoshikoda
1. DESCRIPTION・概要
The silicon vibrating structure gyroscope (SVS3) is a solid state single axis rate sensor. It is a stand alone unit and dC output is proportional to the rate of rotation and supply voltage.

The new concept ring-shaped micro-machined resonator shows distinguished resistance against external shocks and vibrations over a wide range of temperature.

2. MODEL NUMBER・製品番号
CRS03 - 11

3. MECHANICAL DESCRIPTION・外形
The nominal dimensions are shown in Fig. 1. 図1参照

4. PERFORMANCE

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Unit or spec</th>
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<tbody>
<tr>
<td>Absolute Maximum</td>
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<tr>
<td>Supply voltage 電源</td>
<td>2.00</td>
<td>5.00</td>
<td>6.00</td>
<td>V</td>
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<td>Ratings</td>
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<tr>
<td>Storage temperature/保存温度</td>
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<td>deg C</td>
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<td>mK/°C</td>
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<td>Operating conditions</td>
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<td>Temperature 電源</td>
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<td>5.00</td>
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<td>V</td>
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<td>Temperature 温度</td>
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<td>20</td>
<td>60</td>
<td>deg C</td>
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<tr>
<td>Notes/備考</td>
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</tbody>
</table>

The following specifications apply for Vdd=5.00V and Temp=23deg C unless otherwise specified.

5. TYPICAL RATE OUTPUT・出力電圧

\[ VO = \frac{1}{2} \times Vdd + \left( \frac{Ra \times SF \times Vdd}{5} \right) \] (Unit:Volts typ.)

where: Vdd: Supply voltage (V), Ra: Applied rate (deg/s), SF: Scale Factor (V/deg/s)

6. SOLDERING
The product may not be subjected to beyond the maximum storage temperature (e.g. solder reflow chamber) at any time. Hand soldering is recommended. 本製品は同温度の温度範囲である乾燥である(溶接は手動溶接である)に置かれ
Pin  | Number | Signal
--- | --- | ---
1 | VDD (+5V) |  |
2 | VSS (GND) |  |
3 | Rate Output |  |

Weight: 15g(MAX)

Remarks: Metal-can (sensorhead) must not be grounded or connected to other circuit.

センサドクを接地しまたは他の回路への接続を禁止する。

Shaded area has no parts for installation-damping by non-conductives.

斜線部は固定用部品のため図示実装無し。

Fig 1 CRG3-11