Technical Information of Pyro-electric Infra-red Sensors

TYPE : P1S-209S  
SPEC No : 1P1209S-KC100  
Equivalent Spec. : 1P1209S-KC000

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>209S</th>
<th>Unit</th>
<th>Test Conditions (20±15°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detector Type</td>
<td>Dual element</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Housing</td>
<td>TO-5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Responsivity (最小)</td>
<td>1.19 Vpp</td>
<td>Chopper, 1Hz</td>
<td></td>
</tr>
<tr>
<td>(灵敏度)</td>
<td>(130) (%)</td>
<td>Black body, 165°C</td>
<td></td>
</tr>
<tr>
<td>Noise Voltage</td>
<td>0.3 mVpp-p</td>
<td>73dB Amp.</td>
<td></td>
</tr>
<tr>
<td>(噪声电压)</td>
<td>0.7</td>
<td>Supply Voltage, 5VDC</td>
<td></td>
</tr>
<tr>
<td>Source Voltage</td>
<td>1.5 V</td>
<td>40dB Amp.</td>
<td></td>
</tr>
<tr>
<td>(供电电压)</td>
<td>max</td>
<td>Supply Voltage, 5VDC</td>
<td></td>
</tr>
<tr>
<td>max</td>
<td>-</td>
<td>Load Resistance, 47kΩ</td>
<td></td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-20 to +70°C</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-10 to +50°C</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>3 V</td>
<td>DC</td>
<td></td>
</tr>
<tr>
<td>(工作电压)</td>
<td>5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>max</td>
<td>15</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Notes: Load Resistance is connected between Source pin and GND.

TOP VIEW (视角)  
BOTTOM VIEW (下方)  
CIRCUIT DIAGRAM (电路图)

SIDE VIEW (侧面)  
FIELD OF VIEW (视野)

DAISHINKU Corp.
PROFESSOR HAVING MINIMUM 120° FIELD OF VIEW.

EXTRA-WIDE ANGLE LENS
MULTI-SEGMENT (28)

WILL GIVE 5G DETECTION ZONES OVER 12G WHEN USED WITH A DUAL ELEMENT

500 NANOMETERS PK TO PK
OFFSET AT 10 METERS
WITH TEMPERATURE DIFFERENTIAL

EXPECTED SIGNAL FROM TARGET

BOZAR LENS
CURVED LENS WITH
OUTER RADIUS OF
68 MM

TOP VIEW

SIDE VIEW

OFFSET CENTRE
OF PYRO

8° OF FINE

6° OF ZONE

2.5 (FRAME)