

# OSA 5020 Low Noise Distribution

A compact, cost efficient, high quality synchronisation distribution solution for OEM and integrators

## OSA 5020 Low Noise Distribution

A compact, cost efficient, high quality frequency distribution solution for OEM and integrators

Oscilloquartz proudly announces the addition of a new compact 5020 low noise distribution unit to its portfolio of cost efficient synchronisation solutions for OEM and system integrators.

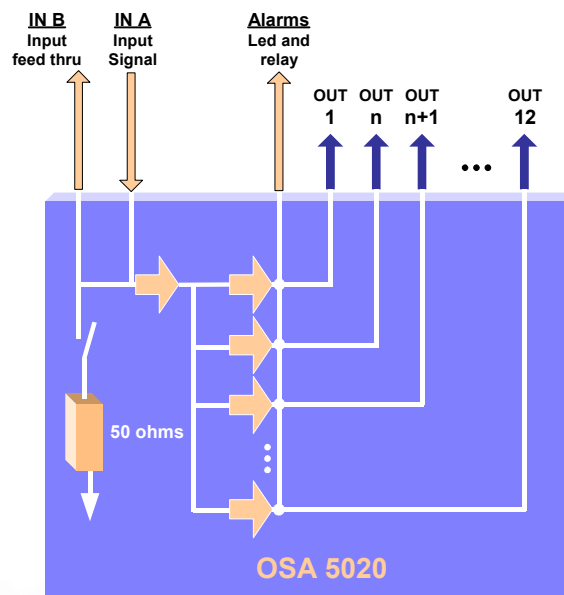
The OSA 5020 is specifically designed for applications where the phase noise characteristic is extremely important such as satellites tracking stations or time and frequency laboratories.

The OSA 5020 Low Noise Distribution unit is very easy to install. The unit does not require any type of configuration as the output signals are direct image of input signal. The rack-mount unit is easily installed and smoothly integrates with existing equipment.



### Highlights:

- Reliable, low cost, compact
- Input frequencies 500 kHz to 50 MHz
- 12 outputs low additive phase noise
- BNC connectors for all inputs and outputs
- AC power supply (100-240 Vac)
- OSA 5020s can be placed in cascade to extend total output capacity



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synchronisation needs

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# Technical specifications 5020

## Typical Applications

- Satellite ground stations equipment
- Time and frequency distribution unit
- Any system requesting a low phase noise distribution unit

<p><b>Power supply:</b></p> <ul style="list-style-type: none"> <li>➤ AC Power supply: 100 to 240 VAC (47 - 63 Hz)</li> <li>➤ Consumption: 10 W</li> </ul>	<p><b>Environmental characteristics:</b></p> <ul style="list-style-type: none"> <li>➤ Operating temperature: 0 to 55°C</li> <li>➤ Storage temperature: -10° to +60°C</li> <li>➤ Humidity: 0 to 95%non condensing</li> </ul>										
<p><b>Configuration and monitoring:</b></p> <ul style="list-style-type: none"> <li>➤ Configuration: None</li> <li>➤ Monitoring: Alarm contact on Sub-D 9p connector (normally open or closed)</li> </ul>	<p><b>EMC, ESD &amp; SAFETY - CE Mark</b></p> <ul style="list-style-type: none"> <li>➤ EMC, ESD: Certified to EN55022: 2005 and EN55024: 2005 Susceptibility to IEC 801 parts 2, 3, 4, 5 and 6</li> <li>➤ Safety: Conformance to EN60950: 2001</li> </ul>										
<p><b>Input specifications:</b></p> <ul style="list-style-type: none"> <li>➤ Connector: BNC female</li> <li>➤ Frequency range: 500 kHz to 50 MHz</li> <li>➤ Impedance: 50 ohms or not loaded (Selection by switch)</li> <li>➤ Nominal level: 1 Vrms</li> <li>➤ Input qualification: Loss of signal-Level detection</li> </ul>	<p><b>Mechanical:</b></p> <p>Mounting: 19" rack mount</p> <p>Size: 43 x 484 x 310 mm (1U x 19'' x 12'')</p> <p>Weight: -3kg (7 lbs) excluding packing</p> <p>Connector access: Rear</p>										
<p><b>Output specifications:</b></p> <ul style="list-style-type: none"> <li>➤ Connector: BNC female</li> <li>➤ Frequency range: 500 to 50 MHz (as input signal)</li> <li>➤ Gain: Unit</li> <li>➤ Nominal level: 1 Vrms</li> <li>➤ Harmonic distortion: &lt; -40dB</li> <li>➤ Non-Harmonic distortion: &lt; -80dB</li> <li>➤ Impedance: 50 ohms</li> <li>➤ Isolation: &gt; 90 dB</li> </ul>	<p><b>Output specifications (continued) :</b></p> <ul style="list-style-type: none"> <li>➤ Additive SSB Phase noise (1 Hz Bandwidth) <table style="margin-left: 20px;"> <tr><td>1Hz</td><td>-120 dBc</td></tr> <tr><td>10Hz</td><td>-135 dBc</td></tr> <tr><td>100Hz</td><td>-145 dBc</td></tr> <tr><td>1kHz</td><td>-155 dBc</td></tr> <tr><td>10 kHz</td><td>-160 dBc</td></tr> </table> </li> <li>➤ Output qualification: Loss of signal Level detection</li> </ul>	1Hz	-120 dBc	10Hz	-135 dBc	100Hz	-145 dBc	1kHz	-155 dBc	10 kHz	-160 dBc
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Oscilloquartz SA reserves the right to change all specifications contained herein at any time without prior notice.

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