Eyewear Tagging
SML GB16R6 RFID Eyewear

SML RFID Product Spec Sheet

Plastic
- GB16R6 Plastic Sunglass
- GB4MuU7 Plastic Sunglass

Metal
- GB16R6 Metal Sunglasses

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SML GB16R6 RFID Inlay
SML RFID Product Spec Sheet
SML GB16R6 RFID Eyewear
SML RFID Product Spec Sheet

Specialty design with ground contacts that extend the performance of the inlay

**EyeGLASS - Composition**

Eyeglass materials, are composed of various plastics, wood, carbon, metals, that present UHF RFID tagging challenges.

**MATERIALS**

**Plastic:**
- Cellulose acetate
- Zylonite
- Cellulose propionate
- Polymide
- Monel

**Metals:**
- Nickel alloy
- Aluminum
- Stainless steel
- Zinc
- Copper

**Glass: Lens**
- High-index plastics
- Tribrid Polycarbonate
- Trivex
- Crown glass

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Market Applications:
- Eyeglass
- Cables and Wiring

Key Benefits:
- Privacy Protection with On/Off RF toggle
- Consistent Read Performance with Impinj AutoTune™
- Small Size Fits Smaller Form Factors
- Near metal performance
- Ease of application
- Supplemental label

For further inquiries, please contact SML RFID

<table>
<thead>
<tr>
<th>Attributes</th>
<th>SML GB16R6 RFID Inlay</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antenna Size</td>
<td>30 X 21.5 mm</td>
</tr>
<tr>
<td>Integrated Circuit (IC) Type</td>
<td>Impinj Monza R6</td>
</tr>
<tr>
<td>Operating Frequency</td>
<td>860 – 960 MHz</td>
</tr>
<tr>
<td>RF Communications Protocol</td>
<td>EPC Global Class 1 Gen2 and ISO/IEC 18000-6C</td>
</tr>
<tr>
<td>Chip Memory</td>
<td>96 bits EPC</td>
</tr>
<tr>
<td>Inlay Substrate Material</td>
<td>PET</td>
</tr>
<tr>
<td>Read Sensitivity</td>
<td>-22.1 dBm</td>
</tr>
<tr>
<td>Write Sensitivity</td>
<td>-18.8 dBm</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-5 °C to 60 °C / 23 °F to 140 °F</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>20% - 60% RH</td>
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Specialty design with ground contacts that extend the performance of the inlay

EYEGGLASS - Composition

Eyeglass materials, are composed of various plastics, wood, carbon, metals, that present UHF RFID tagging challenges.

MATERIALS

Plastic:
- Cellulose acetate
- Zylonite
- Cellulose propionate
- Polyamide
- Monel

Glass: Lens
- High-index plastics
- Tribrid Polycarbonate
- Trivex
- Crown glass

Metals:
- Nickel alloy
- Aluminum
- Stainless steel
- Zinc
- Copper

Box or Bag Sticker
Extra label provided to keep the correct box or bag identified so you never lose the corresponding case provided.

Ground Connectors
Ground, direct metal contacts to improve the performance in comparison to a normal 42x16 mm UHF inlay in comparison

Front and Back
With the ability to print one side and displayed as two sided graphics when applied

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SML GB16R6 RFID Inlay
SML RFID Product Spec Sheet

Inlay Size: 30 X 21.5 mm
[1.18 X 0.846 in]

Market Applications:
- Eyeglass
- Cables and Wiring

Key Benefits:
- Privacy Protection with On/Off RF toggle
- Consistent Read Performance with Impinj AutoTune™
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Direct frame contact with the ground connectors of the GB16R6 helps improve the performance in comparison to a normal 42x16 mm UHF inlay with no frame contact.

**Plastic Frame:** GB16R6 performs at 920 mhz -5dbm vs a larger 42 x 16 mm inlay performance of 920 mhz -2dbm with frame contact

**Metal Frame:** GB16R6 performs at 920 mhz -13dbm vs a larger 42 x 16 mm inlay performance of 920 mhz -10dbm with non frame contact

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