

Eyewear Tagging

Robert Wood | Director of RFID and Technology Services

SML (USA)

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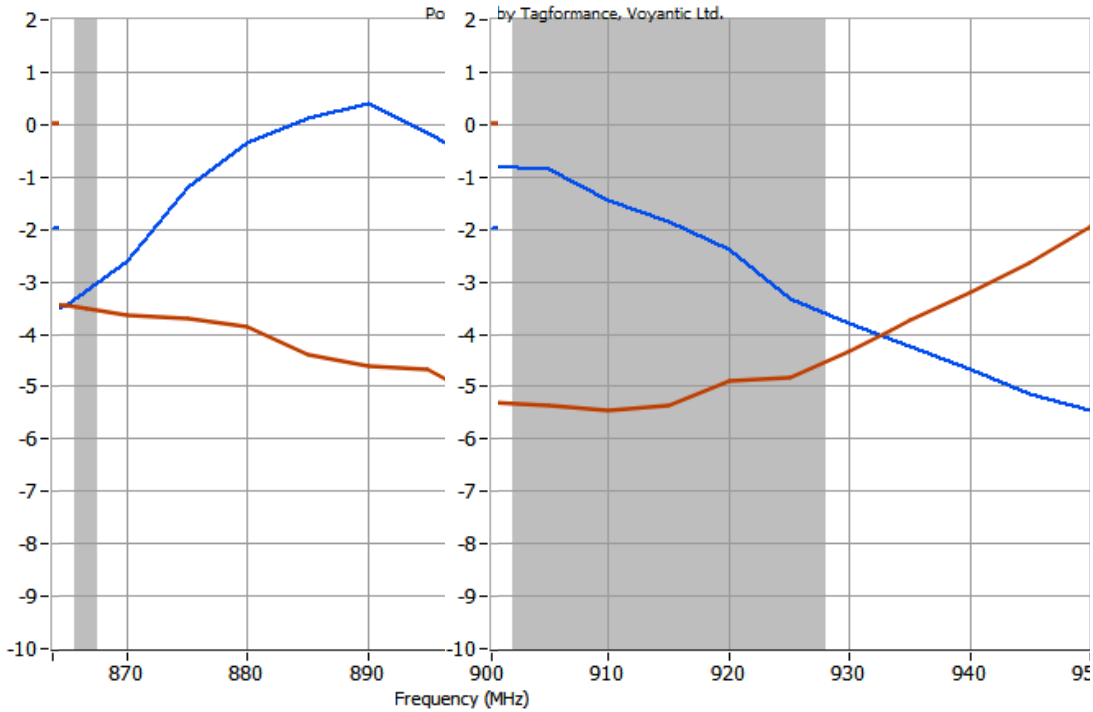
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SML GB16R6 RFID Eyewear

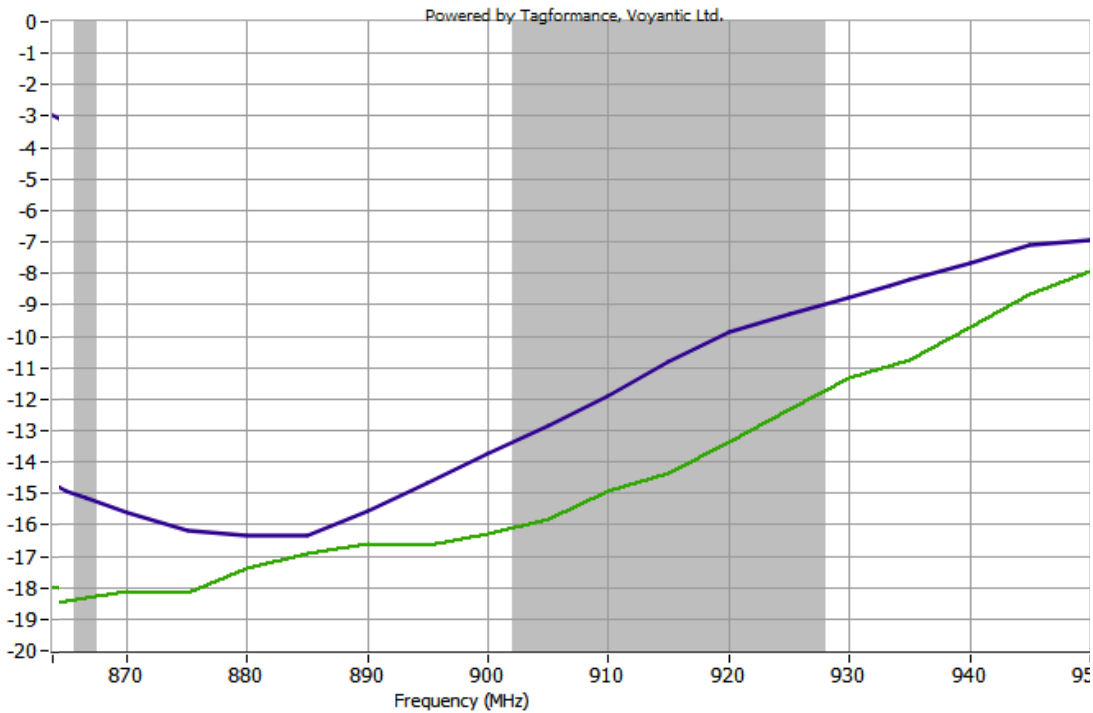
SML RFID Product Spec Sheet

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Plastic

- GB16R6 Plastic Sunglass T
- GB4MuU7 Plastic Sunglass

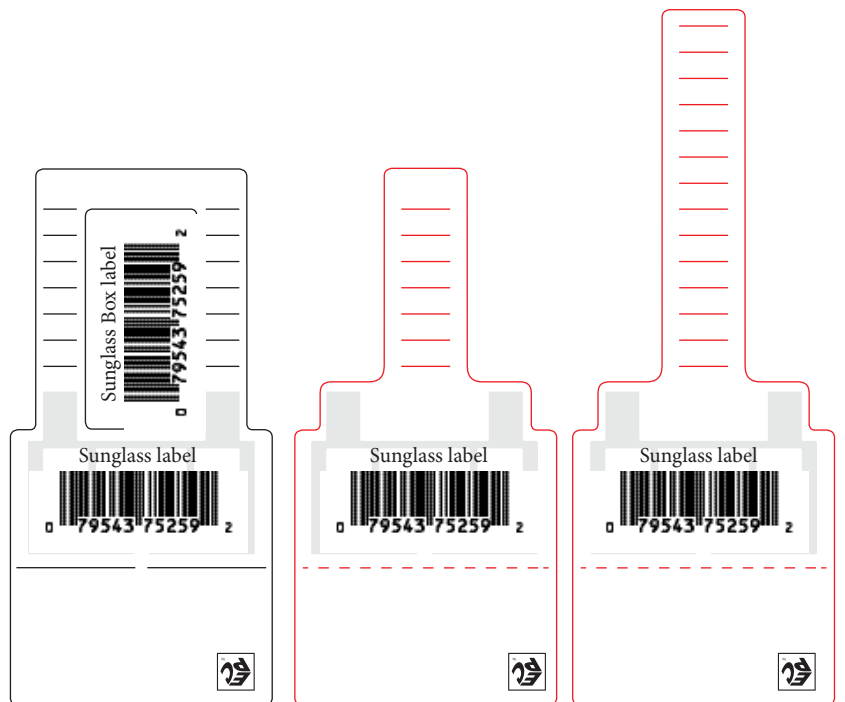
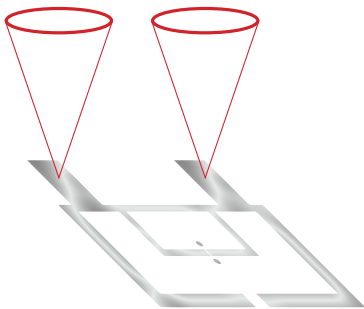


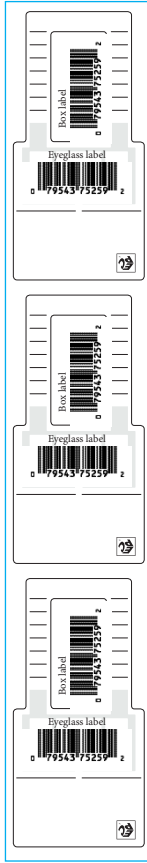
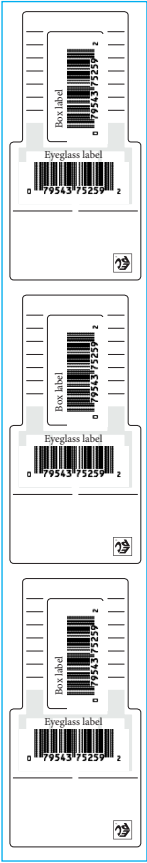
Metal

- GB16R6 Metal Sunglasses

SML GB16R6 RFID Inlay

SML RFID Product Spec Sheet





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Box or Bag Sticker

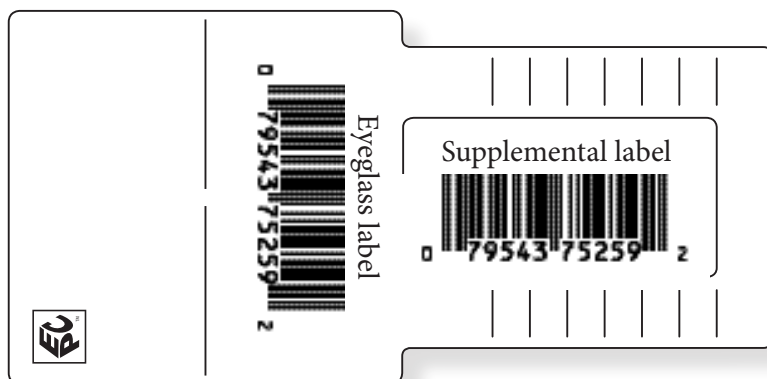
Extra label provided to keep the correct box or bag identified so you never lose the corresponding case provided.

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

EYEGLOSS - Composition

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

MATERIALS

Plastic:

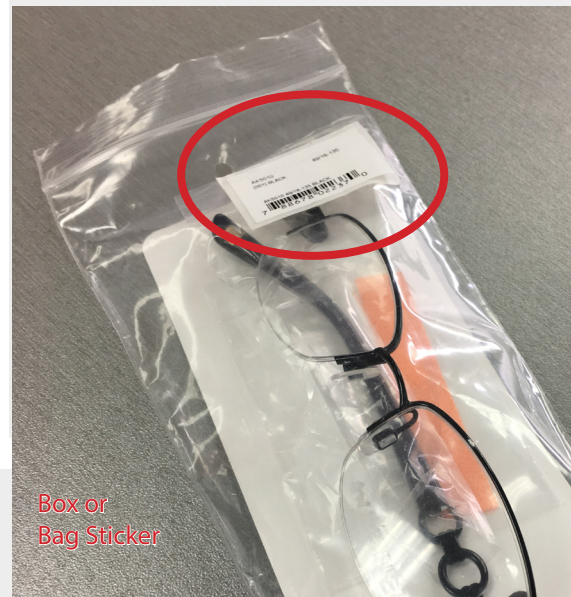
Cellulose acetate
Zylonite
Cellulose propionate
Polyamide
Monel

Metals:

Nickel alloy
Aluminum
Stainless steel
Zinc
Copper

Glass: Lens

High-index plastics
Tribid Polycarbonate
Trivex
Crown glass



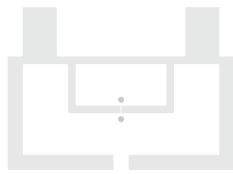
Box or Bag Sticker

SML GB16R6 RFID Inlay

SML RFID Product Spec Sheet

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



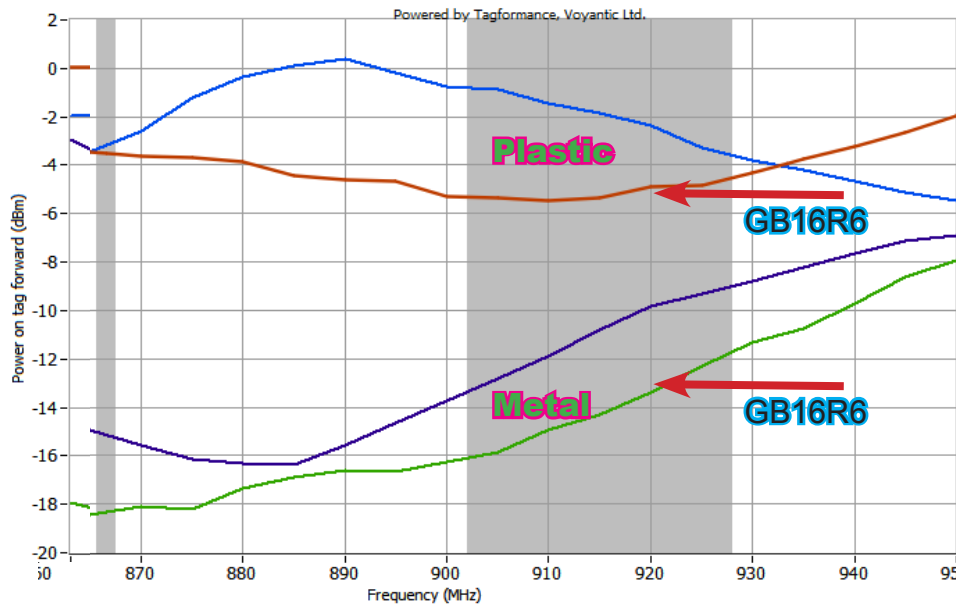
Market Applications:

- ◆ Eyeglass
- ◆ Cables and Wiring

Key Benefits:

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

For further inquiries, please contact SML RFID



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.

Attributes	SML GB16R6 RFID Inlay
Antenna Size	30 X 21.5 mm
Integrated Circuit (IC) Type	Impinj Monza R6
Operating Frequency	860 – 960MHz
RF Communications Protocol	EPC Global Class 1 Gen2 and ISO/IEC 18000-6C
Chip Memory	96 bits EPC
Inlay Substrate Material	PET
Read Sensitivity	-22.1 dBm
Write Sensitivity	-18.8 dBm
Operating Temperature	-5 °C to 60 °C / 23 °F to 140 °F
Operating Humidity	20% ~ 60% RH

SML GB16R6 RFID Eyewear

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Box or Bag Sticker

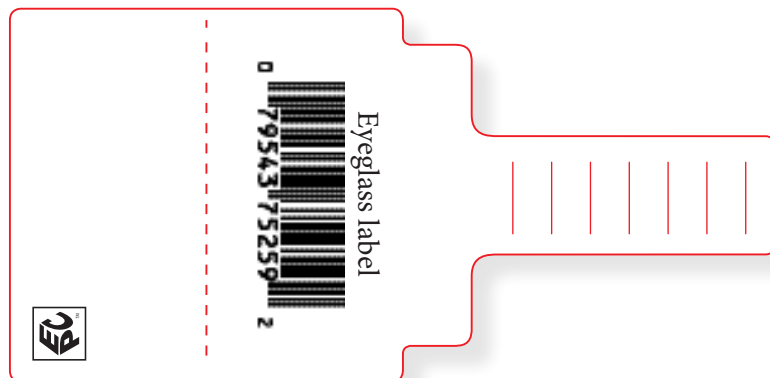
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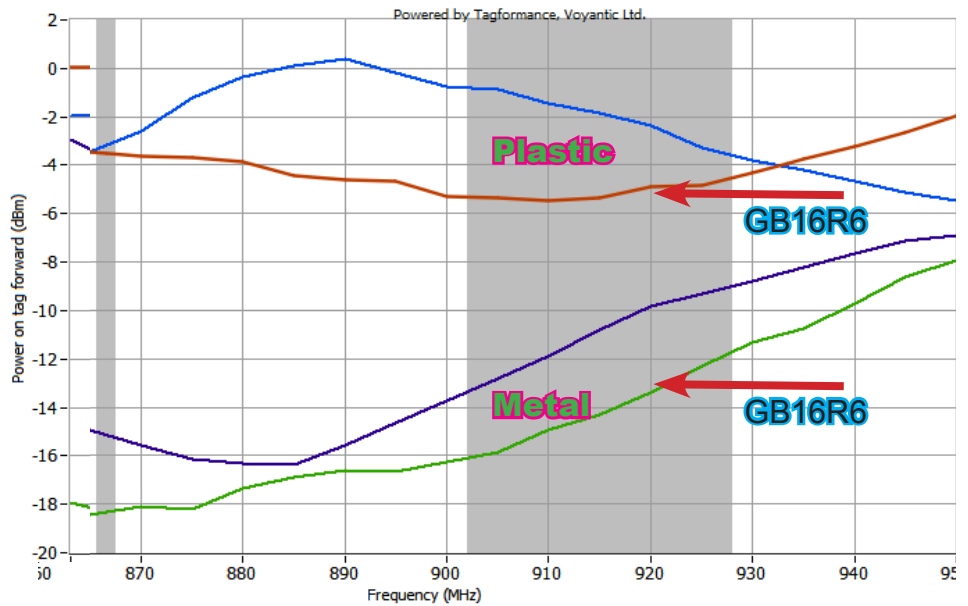
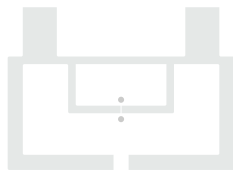
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