

Micromax™ 7381S

Microcircuit and Component Materials

Silver Conductor

Micromax™ 7381S silver conductor is designed for use with Ca/Mg/Ti ceramic bodies and others. It's used on high frequency dielectric waveguide filters and other similar components. It is formulated to be applied to ceramic components by spraying.

Product benefits

- Uniform coating with good coverage
- High Q or low insertion loss
- Dense fired film and low resistivity
- Shorter tuning time and high yield
- Good solderability
- Excellent adhesion
- High reliability
- Lead, Cadmium, Nickel and Phthalate free*

* Lead, Cadmium, Nickel and Phthalate 'free' as used herein means that lead, cadmium, nickel and phthalate are not intentional ingredients in and are not intentionally added to the referenced product. Trace amount however may be present.

Product information

Solvent or thinner

Micromax™ 8280

Solid content

68.5 - 70.5^[1] %

[1]: 750°C

Rheological properties

Viscosity

1.5 - 2.5^[2] Pa.s

[2]: Brookfield LVT, UC&S, 10 rpm

Application technique

Drying time

10 - 15 min

Drying temperature

150 °C

Electrical properties

Surface resistivity

≤1.7^[3] mOhm per square

[3]: at 12µm fired thickness

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Storage and stability

Shelf life

6^[4] months

[4]: in unopened containers, from date of shipment, at temperature <25° C

Additional information

How to use

Processing

- **Spraying**
 - Manual or automatic spray.
- **Drying**
 - Wet thick films should be dried for 10-15 minutes at 150° C.
- **Firing**
 - Dried thick films should be fired in a belt furnace. A total cycle time of approximately 1 hour with approximately 10 minutes at peak temperature of 900° C is recommended.

Properties

- Information in this datasheet shows anticipated typical physical properties for Micromax™ 7381S based on specific controlled experiments in our labs and are not intended to represent the product specifications, details of which are available upon request.

Storage and shelf life

Containers should be stored, tightly sealed, in a clean, stable environment at room temperature (<25° C). Shelf life of material in unopened containers is six months from date of shipment. Some settling of solids may occur and compositions should be thoroughly mixed prior to use.

Safety and handling

For Safety and Handling information pertaining to this product, read the material Safety Data Sheet (SDS).

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