



**Thick Film Metallized Ceramic** 



### Introduction

Innovacera can provide thick film metalizing ceramics. Metalization is a coating of metal material with good adhesion on the ceramic. This can be followed by a barrier diffusion layer of electrolytic pure Nickel (Ni). The third layer of gold (Au) or other precious metal, results in a tightly sealed ceramic to metal assembly ready for the soldering or brazing process. Unmetalized sections of the part can also be glazed.

## Specification

Ceramic Materials: 95%,99%alumina, AIN, BeO

Metallization Materials: Mo/Mn; W/Mn(BeO only)

Metallization thickness: 25±10um; 8-15um(W/Mn)

Plating Materials : Ni/Ag/Au

Plating Thickness: 2-10um

Pin full strength: 4200kgf/cm<sup>2</sup> avg. (at Φ3.0mm

pin)

#### Benefits

- · Strong, robust bond
- Minimal substrate deformation
- · Universal applicability for ceramic metal joining
- High processing speeds
- Uniform coating, thickness and density

### Applications

- Feed-through insulators
- Headers
- High-power receptacles
- Insulating discs
- Insulating rings and cylinders
- Precipitator products
- Power Switches
- Vacuum Interrupters
- SCR Housing
- Windows
- X-Ray tubes







# **■ Typical Ceramic Composition**

95%, 99% Alumina Ceramic Components AIN Ceramic Substrate BeO Ceramic Substrate













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