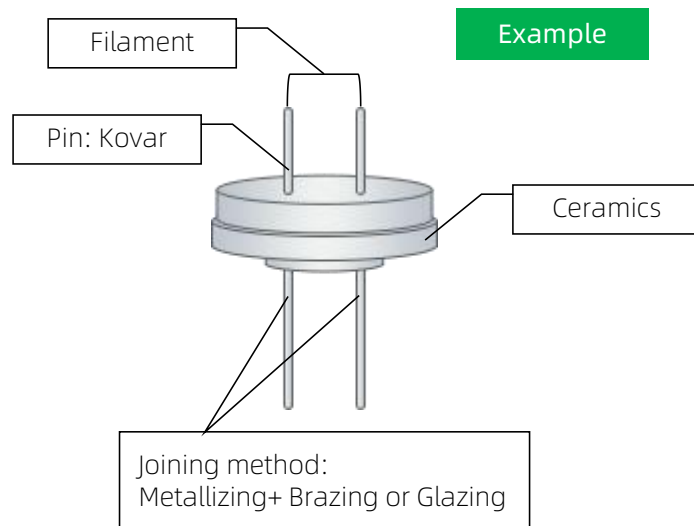


Analytical Instruments Components

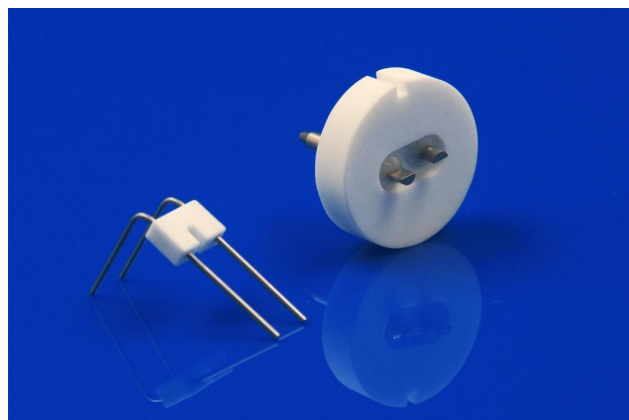
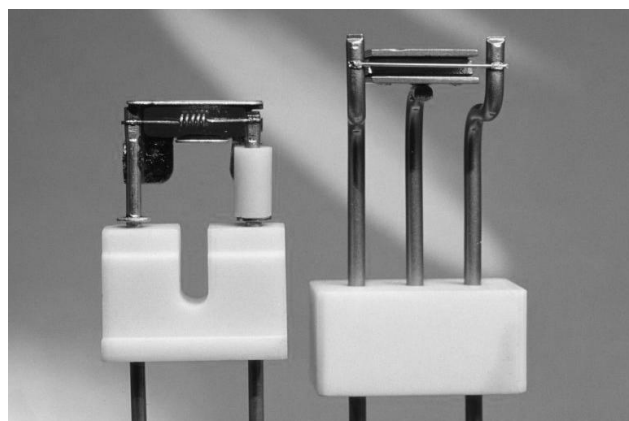
■ Introduction

INNOVACERA designs and manufactures technical ceramics for the analytical instrumentation industry, provide a wide range of ceramic materials to solve problems where plastics and metals fail. Ceramics are ideally suited to provide the strength and electrical, thermal, and corrosion-resistant properties needed for analytical instrumentation. The ceramic materials can be Alumina, Zirconia, and Zirconia Toughened Alumina (ZTA) and so on.



■ Analytical Instruments Ceramic Components can withstand challenging environments

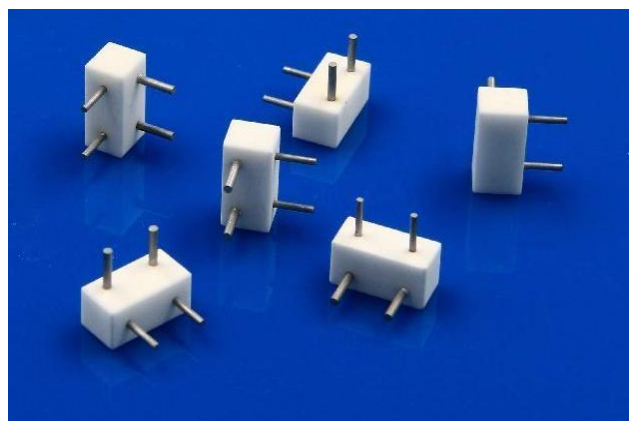
- High Heat
- Corrosive Environments
- Thermal Management Challenges
- High Mechanical Wear Environments
- Electrical Insulation Requirements
- High Temperature/High-Pressure Conditions



■ Filament Assemblies for SEM, TEM, and Mass Spectrometry

Filament is a critical component in mass spectrometry applications for the analytical and medical industries. Customers can choose between two and four-pin options, with the pins brazed into the alumina insulator ready for filament welding.

INNOVACERA's welding processes include brazing and glass Weldings.



■ Orifice Plates

The orifice is the opening where ions enter the mass spectrometer. The declustering potential (DP) is a voltage applied to the orifice that helps to prevent the ions from clustering together.



■ Quadrupole Collars, Supports, Saddles, Rods

Ceramic collars, supports/saddles and rods is widely used for quadrupole mass analyzers, mass spectrometry instrumentation.

Supports and collar products suit a wide range of quadrupole designs utilizing the preferred rod mounting methods.



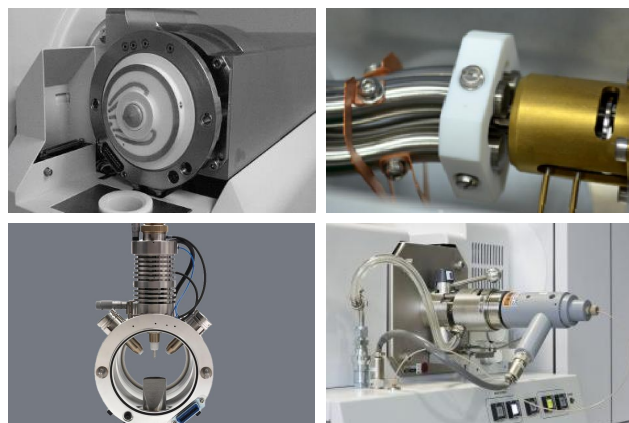
■ Ceramic Heater For Ionspray Needle

The additional temperature (TEM) added through the ceramic heaters helps to rapidly evaporate the spray droplets. Not all compounds require additional heat to ionize and in some cases the additional heat can be detrimental to sensitivity. The maximum temperature for the heaters is 750 °C.



■ Analytical Instruments Ceramic Components Application

Mass Spectrometers, Vacuum, X-ray Imaging, Ion/Electron Beam, Spectrometers, Sensors, High-Pressure Liquid Chromatography (HPLC), Medical, and Telecom.





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