



# CLEC Ceramic Metallization & hermetic sealing technology

CLEC supply custom Metallized ceramic and braze assembly prototype to high volume production capacity.

## Applications

Feed-through insulators, Headers, Housings, High-power receptacles, high-performance semiconductors, Insulating discs, Insulator rings and cylinders, Precipitator products, Power switches, Traveling wave tubes, Vacuum interrupters, Windows, Power grid tubes, X-ray tubes and others.

## Typical Features

Leak:  $<1 \times 10^{-8}$  CC/SEC or as requested  
Mechanical Strength:  $>1200 \text{Kg/cm}^2$   
Thermal Shock: 850 degree C  
Voltage surge: 7000V

Ceramic + Mo/Mn Metallized + plating Ni/Au  
Brazing: Au/Sn or Ag/Cu or others  
Metal Materials: Kovar + Ni/Au plated  
Window Materials: Sapphire or Germanium

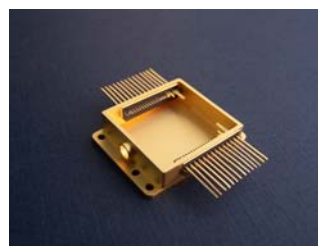
*Special types are available according to customer's drawings or samples.*



Metallized  $\text{AL}_2\text{O}_3$



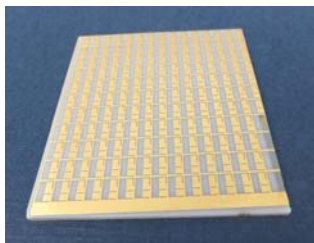
ODP Package



OEP Package



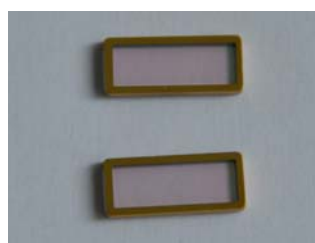
Germanium window



Metallized ALN



Ceramic Connector



Sapphire Window A/R Coated



Sapphire Window

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