Optical Module Sealing Method

Overview

The lid seal methods are: seam welding (resistance seam welding is the most common method for Kovar or steel packages; two electrodes roll along the lid perimeter, generating resistive heating that welds the lid to the package flange; the process is automatic and fast (2-5. The lid seal methods are: seam welding (resistance seam welding is the most common method for Kovar or steel packages; two electrodes roll along the lid perimeter, generating resistive heating that welds the lid to the package flange; the process is automatic and fast (2-5. (57) An optical module in which an optical component is accommodated in a space formed by a housing and a cap has a structure where a seal unit in which an O-ring and a sealant are interposed between the housing and the cap is provided, and in the seal unit, the sealant is disposed on an outside of. Patent Document 1discloses a technique that “includes a blow-out unit having a frame member forming warm air blow-out port and a motor housing box coupled to the frame member, a wind direction adjusting louver rotatably supported on the frame member, and a louver driving stepping motor housed and. This paper describes an alternative way of sealing an optical fiber at a much lower cost than soldering, with an equal to or lower

susceptibility to creep and misalignment of the fiber, and higher reliability. It involves the use of a low temperature (320°C) glass preform which seals directly to. Broadex Technologies Fiber Arrays are assembled with high precision V groove arrays and undergo a unique assembly and polish process to obtain an extremely accurate fiber core position with ultra fine surface finish. Broadex provides a wide variety of fiber feedthroughs to match your hermetic. How do I design the lid seal process for a hermetic RF module package?

Designing the lid seal process for a hermetic RF module package creates an airtight seal between the package lid and the housing that prevents moisture, oxygen, and contaminants from reaching the sensitive electronics inside. connection points is undeniable, not all seals are created equal. Many NEMA and IP-rated potted seals, grommets and cable glands can shield fiber optic components from water spray or temporary submersion at a limited depth, but they fall short of a moisture-tight hermetic seal and will allow gases.

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Achieving low moisture: bake the package and lid at 125-150°C for 24 hours before sealing (to drive off adsorbed moisture), seal quickly after baking (within 4 hours), and use a moisture getter inside the ...

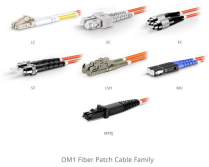
HAZARDOUS LOCATIONS Optical fibers operate in hazardous locations requiring certifications to standards such as ICEEx, ATEX, and UL/CSA for operation globally.

This method of enabling a hermetic seal is an easy and convenient alternative to fiber metallization, and the product comes with Broadex Technologies high quality fiber array for easy assembly into various ...

Hermetic sealing is one of the most effective methods of providing this protection. The material properties of ceramic packages and sealing methods that enable hermetic sealing are outlined below.

An optical module includes optical components including a light source, a pedestal on which the optical components are mounted, a cover which is combined to the pedestal to seal the optical...

By judiciously selecting materials, employing advanced design methods, and conducting comprehensive testing, engineers can develop sealing solutions that protect sensitive optical fibers ...



The housing 202 and the cap 203 have a sealing structure where a seal member 301 formed of a sealant or an O-ring is used to shut off air inside and outside the optical module.

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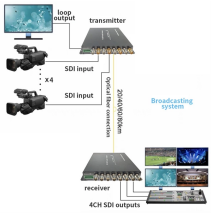
This paper describes a low temperature solder glass and the process for sealing optical fibers reliably and at a significant cost savings over the solder sealing method.



This series of advanced novel low temperature curing sealing solutions offer unparalleled moisture barrier and low stress protection to electronics and other devices for the extreme working environments.

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