

Anti-sulfurization experiment of optical modules



Overview

ZnS thin films have been prepared by Radio Frequency (RF) magnetron sputtering on Germanium (Ge) optical windows for anti-reflection coating (ARC). (57) The present invention is an anti-sulfuration coating material, including: (A) a linear organopolysiloxane represented by the following general formula (1); (B) an organohydrogenpolysiloxane having two or more hydrogen atoms bonded to silicon atoms within one molecule; (C) one or more. Anti-sulfur modules are those designed to prevent sulfur buildup from resulting in abnormal operations. Such modules may be used in environments featuring extremes of temperature, humidity, or pollution in which sulfur is present in high concentration such as near the end of exhaust pipes or in. In this work, Anti-reflective thin film is made on Germanium (Ge) optical window, which is one of the most used materials in thermal imaging systems. First trials for the laser ablation process were performed on different wafer material. Specification given herein may be changed at any time without prior notice. Contact our sales. Silver-based inner electrodes in flat chip resistors can lose conductivity when the silver reacts with sulfur in a high-sulfur environment.

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In this paper, we study a combination of thermal and electron beam evaporation as a technology to form protected enhanced high reflective Ag coatings. A newly designed multiplayer film ...



Therefore, according to the specific application scenario, appropriate method for enhanced anti-sulfurization capability can be chosen. Moreover, with palladium content above 10wt%, the resistors ...



AR coatings are widely applied in optical and photonic devices, where they enhance clarity and reduce optical losses in systems ranging from everyday consumer products to advanced ...



Therefore, a cured material obtained from such an anti-sulfuration coating material can be suitably used for an optical element sealing material, and similar applications for the protection of ...



Here, our experiments have shown that the picosecond regime does not show enough benefit, but satisfying results might be achievable by using femtosecond laser pulses.



There are several methods for creating anti-sulfur resistors. Different manufacturers utilize different patented processes, but there are generally two approaches.



The structural, optical and surface properties of ZnS anti-reflective thin films were investigated to some coating parameters. To depict the effect of pressure in ARC, single layer samples with the same ...



Silver-based inner electrodes in flat chip resistors can lose conductivity when the silver reacts with sulfur in a high-sulfur environment. The electrodes can lose all conductivity and disconnect the circuit as ...



Prior to the anti-sulfurization test, a preset test of the maximum environmental stress during installation and application should be conducted to ensure product quality and reduce the possibility of product ...



In this paper, we study a combination of thermal and electron beam evaporation as a technology to form protected enhanced high reflective Ag ...



If it's intended to use products under harsh environment (under high density of sulphur), KOA recommends using the "Anti-Sulfuration Flat Chip Resistors" as a perfect measure.

Contact Us

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